

ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for profit organization dedicated to raising worldwide preparedness and co-operation in response to oil and chemical spills, promoting technical development and professional competency, and to providing a focus for making the knowledge and experience of spill control professionals available to Intergovernmental, Governmental, NGO's and interested groups and individuals

ISCO holds consultative status at the International Maritime Organisation and observer Status at International Oil Pollution Compensation Funds

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HEADLINE INTERNATIONAL NEWS

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THE OCEAN PROJECT EU - UN HIGH SEAS TREATY



Photo courtesy of Ocean Project The Ocean Project Funded By UN & EU

Agreed on March 5th, 2023, and expected to be covering almost two-thirds of the ocean that lies outside national boundaries, the new UN 'High Seas Treaty' is set to provide a legal framework for establishing networks of Marine Protected Areas (MPAs), designed to contribute to the conservation of marine biodiversity.

The 'High Seas Treaty' is most timely in providing a governance framework for MPAs to implement one of the goals of the Convention on Biological Diversity's (CBD) recently adopted Global Biodiversity Framework, to protect and conserve at least 30% of the ocean, and to ensure 30% of degraded areas are under restoration, by 2030

The OCEAN project is user-centred by nature and is involving a growing group of maritime stakeholders in its development. Through the OCEAN Maritime Stakeholders Forum, the project engages and interacts with prominent organizations on marine mammal protection, including The World Wildlife Fund, The International Whaling Commission (IWC) and the International Fund for Animal Welfare (IFAW), to ensure that the project will deliver the most effective and efficient solutions possible within the project limitations.

The Maritime Executive / [Read more](#)

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INTERNATIONAL AND REGIONAL NEWS

JOSÉE LAMOUREUX, REPRESENTATIVE OF TRANSPORT CANADA VISITS REMPEC TO EXPLORE FURTHER COLLABORATION AND IMPROVEMENTS FOR MIDSIS TROCS 4.0



Photo courtesy of Transport Canada

March 15 - The Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) has received the visit of Ms Josée Lamoureux, Senior Advisor, Environmental Response, Transport Canada – Marine Safety and Security on 8-9 March 2023 for a bi-lateral consultation on the Maritime Integrated Support Information System on Transport of Chemical Substances (MIDSIS-TROCS 4.0).

What is MIDSIS TROCS 4.0 ? - The Maritime Integrated Decision Support Information System Transport of Chemical Substances MIDSIS TROCS is a free and publicly available tool that aims to facilitate decision making in case of chemical spill. It provides a tool to first responders primarily for their safety and to take well informed decision, using MIDSIS-TROCS decisions trees features with concise information and action sheets, as well as updated information on chemical characteristics and reactivity, GESAMP Profiles, shoreline and at sea response guides, and more.

The visit of Ms Josee Lamoureux was an opportunity to go further in the synergies created between our two institutions and to extend the work initiated on this program. In fact, during the exchange, the following topics raised allowed us to look further in the improvement of this tool:

A complete review of the website was made and subsequently a course of action for a way forward for further improvements capitalizing the Transport Canada Shoreline Emergency Response Book were discussed.

MIDSIS TROCS should be promoted whenever possible and that countries should be encouraged to use the database during their marine pollution exercises or add this element to their emergency plans and to contribute to this effort.

It was finally agreed to ensure coordination of their work and activities in respect of matters of common interest to support national capabilities for preparedness and response to HNS spills, by sharing information and by collaborating in the capitalization of respective Guidelines and Tools.

REMPEC / [Read more](#)



EMSA CARGOSAFE PROJECT

March 16 - Fires on containerhips, in particular originating in containers, have gained increasing visibility in recent years.

Cargo fire safety onboard container vessels can be considered a topic with two essential dimensions requiring due consideration in any safety risk analysis. The first is related to the ship systems for detection and response to fires, and the second on the carriage, handling, declaration and segregation of dangerous goods (DGs).

INTERNATIONAL & REGIONAL NEWS (CONTINUED)

The objective of CARGOSAFE is to identify cost-effective risk control options for cargo fires, dealing with both dimensions of the problem both for existing ships and newbuilds, based on a safety risk study on containerised cargo fires. The study follows the structure of Formal Safety Assessment, as described in IMO's MSC-MEPC.2/Circ.12/Rev.1 in a way that can be proposed and considered in the context of the relevant discussions at IMO.

Period: December 2021 – March 2023 (15 months)

Contractor: Consortium led by The Danish Institute of Fire and Security Technology (DBI)

Deliverables: Final report, Annexes and summary report

EMSA / [Read more](#)

LARGEST RIVER AND WETLAND RESTORATION INITIATIVE IN HISTORY LAUNCHED AT UN WATER CONFERENCE

March 23 - A coalition of governments today launched the Freshwater Challenge - the largest ever initiative to restore degraded rivers, lakes and wetlands, which are central to tackling the world's worsening water, climate and nature crises.

Announced at the [UN Water Conference in New York](#), the Freshwater Challenge aims to restore 300,000km of rivers - equivalent to more than 7 times around the Earth - and 350 million hectares of wetlands - an area larger than India - by 2030. UNEP / [Read more](#)

SIGNING OF MEMORANDUM OF UNDERSTANDING BETWEEN THE IOPC FUNDS AND THE NATIONAL CANADIAN FUND (SOPF)

March 23 - The IOPC Funds and the Canadian Ship-source Oil Pollution Fund (SOPF) have agreed and signed a Memorandum of Understanding to enhance readiness, cooperation and efficiency in the handling of claims and to formalise their roles in any future oil pollution incident involving both organisations.

In Canada, claims for pollution damage can be submitted directly to and are paid by SOPF who can recover costs from the shipowner's insurer and the IOPC Funds. SOPF has worked closely with the IOPC Funds for over 30 years. IOPC Funds / [Read more](#)

IMO WORKSHOP ON THE 2010 HNS CONVENTION

A workshop aimed at assisting States in their work towards ratification of the 2010 HNS Protocol has been organised by the delegation of Canada in cooperation with the Secretariats of IMO and the IOPC Funds. The workshop was due to take place at the International Maritime Organization (IMO) in London on 31 October and 1 November 2022 but has been postponed. The rescheduled workshop will now take place on 3 and 4 April 2023 (see [Circular IOPC/2022/Circ.6](#)) and will be conducted in person and in hybrid format. To facilitate participation, the workshop will take place directly following the meeting of the 110th session of the IMO Legal Committee (26 to 31 March 2023). The draft programme, provisional timetable for the workshop and registration details can be found here: [IMO Circular Letter no.4620/Rev.1](#). [Thanks to Committee Member, Larissa Montas]



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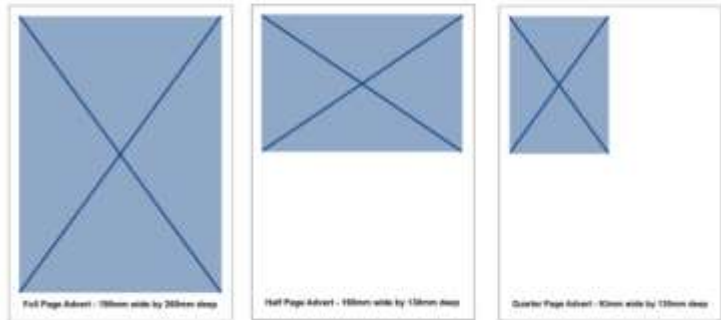
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What is the ISCO Newsletter?

ISCO's weekly newsletter is focused in international, regional and national news that is of interest to professionals, companies and organisations involved in oil and chemical spill control and the emerging field of CBRN incident response.

Through the Newsletter and its other activities, ISCO is disseminating information on new developments – technical advances, legislation, events and other matters that affect the international spill response community.

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NEWS REPORTS FROM AROUND THE WORLD

Information culled from Websites of National Environmental Agencies or contributed by other organisations and members.

CANADA: PARLIAMENTARY SECRETARY DUGUID TO LEAD DELEGATION TO THE UNITED NATIONS 2023 WATER CONFERENCE

March 21 - Terry Duguid, Parliamentary Secretary to the Minister of Environment and Climate Change, will lead the Canadian delegation to the [United Nations 2023 Water Conference](#). The conference will take place March 22–24, 2023, in New York City, New York. Government of Canada / [Read more](#)

CANADA: WORLD WATER DAY MARKED WITH FUNDING ANNOUNCEMENT FOR RESEARCH AND PROTECTION OF OUR MOST PRECIOUS NATURAL RESOURCE: FRESH WATER

March 22 - Today, the Honourable Steven Guilbeault, Minister of Environment and Climate Change, announced a \$25 million investment in the International Institute for Sustainable Development's Experimental Lakes Area. This research centre facilitates experiments in the Experimental Lakes Area, located in northern Ontario, on stressors to aquatic ecosystems, including excess nutrients, acidification, contaminants of concern, and climate change. This centre contributes to freshwater management, including the protection and restoration of freshwater biodiversity, both in Canada, and abroad. Government of Canada / [Read more](#)

CHINA: SHANGHAI AND YANGTZE RIVER PORTS NEW POLLUTION PREVENTION AND CONTROL LAWS

March 21 – Both the Regulations of Shanghai Municipality on the prevention and control of ship pollution issued by Shanghai MSA and the Regulations of Jiangsu Province on the prevention and control of ship pollution in the Yangtze River came into force on 1st March 2023. MFame / [Read more](#)

DENMARK SALVAGING UNKNOWN OBJECT NEAR NORD STREAM 2 PIPELINE

March 24 - Denmark is salvaging an unidentified object found next to a Russian gas pipeline that was damaged in a blast last September, as investigators continue to seek who was behind the attack.

The operation comes two weeks after German authorities said they searched a vessel that may have transported explosives used in

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

the attack on the Nord Stream pipelines. Several probes are investigating the origin of the attack on the Nord Stream 1 and 2 links, designed to deliver natural gas from Russia to Germany under the Baltic Sea. gCaptain / [Read more](#)

FINLAND: ENVIRONMENT INSTITUTE GRANTED EUR 4.1 MILLION IN EU RESEARCH FUNDING

March 21 - The Finnish Environment Institute (Syke) will lead one and participate in six new Horizon Europe funded projects. This success in the 2022 application round amounts up to 4.1 million euros research and innovation funding to Syke. The GOVAQUA project coordinated by Syke develops innovative solutions for the management of water resources, enabling a green and fair transition in the use of water. SYKE / [Read more](#)

NIGERIA: MOSOP DEMANDS TERMINATION OF ALL HYPREP CONTRACTS

March 20 - The Movement for the Survival of the Ogoni People in the United States of America (MOSOP-USA) has demanded termination of ongoing awards of contracts by the Hydrocarbon Pollution Remediation Project (HYPREP) on the cleanup of Ogoniland.

The demand was contained in a 10-paragraph petition addressed to the Minister of Environment, Mohammed Abdullahi, with the title: "The Looting of \$1billion Hyprep Funds: MOSOP-USA Demands Immediate Termination of All Contracts."

This Day Live / [Read more](#)

USA: FEDERAL REGISTER NOTICE: PUBLIC MEETING IN PREPARATION FOR INTERNATIONAL MARITIME ORGANIZATION PPR 10 MEETING

March 16 - The Department of State announced in the Federal Register it will conduct a public meeting at 1 p.m. on Tuesday, April 11, 2023, both in-person at Coast Guard Headquarters in Washington, DC, and via Microsoft Teams. The primary purpose of the meeting is to prepare for the 10th session of the International Maritime Organization's (IMO) Pollution Prevention and Response Sub-Committee (PPR 10) to be held in London, United Kingdom from April 24 to 28, 2023. Homeland Security / [Read more](#)

PEOPLE IN THE NEWS

MEET JOHNNY SAJLAND – SURFCLEANER'S NEW CEO



SurfCleaner's newly appointed CEO, Johnny Sajland, arrives with more than 25 years' experience working for global brands – including Alfa Laval, Munters and Ecolean. With a burning passion for sustainability, Sajland is now refocussing efforts with an ambitious expansion strategy to build SurfCleaner's global footprint and realise its far-reaching potential.

Sajland's impressive resume has broadly followed the Heating, Ventilation and Air-Conditioning sectors through to Power Generation. Forging his career with Alfa Laval in the mid-90s he progressed to Product Manager of the Food Technology Segment, based in the Benelux region by the early 2000s.

SurfCleaner / [Read more](#)

NEWS FROM ISCO MEMBERS

Corporate Members of ISCO can by submitting news about new products and services in the "News from ISCO Members" section of the ISCO Newsletter. This is a free facility for Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 60 countries, it's a cost-effective way to promote your company. If you have some news you would like to share with readers of the ISCO Newsletter, send it to John.McMurtrie@spillcontrol.org

SURFCLEANER COMPLETES PINE OIL CLEAN-UP PROJECT FOR MAJOR EUROPEAN PORT



Photo: Ricardo Cambra, Service Engineer, SurfCleaner

SurfCleaner has completed its first pine oil clean-up project for a major European port. The work was delivered within the inner harbour of a large international logistics and cargo handling hub, following a pine oil leak during the ship-to-shore transfer process.

The incident happened after an operator within the port experienced a leak causing pine oil to enter the storm water system. SurfCleaner performed a rapid response, deploying its versatile and compact SCO 1000 skimmer/ separator device, within 90 minutes of the alarm.

SurfCleaner service engineer Ricardo Cambra says: "When we arrived, there was a

NEWS FROM ISCO MEMBERS (CONTINUED)

vacuum truck attempting to siphon the surface water. Our SCO 1000 device was quickly deployed and able to perform a much more rigorous operation separating and collecting the pine oil from within the harbour's water treatment plant basin.

Within 24 hours of this first call out further pine oil residue was found within a well connected to the sewerage system where we again installed an SCO 1000 device to tackle the issue. Pine oil is a hugely popular solvent, used in industrial applications for gums, resins, and other substances. However, it presents a significant issue when it comes to spills.

In this instance it reacted with other petroleum-based products and emulsified creating a tough sludge, which is particularly difficult to collect. If it enters the sewerage network it travels to the water treatment system where it can damage equipment such as sand filters, which are costly to replace."

SurfCleaner's world first hybrid skimmer separator treats a variety of water surface contaminants – including oil, diesel, petrol, plastics, sludge and other pollutants. The technology has major potential across the maritime industry including harbours, coastlines and nearshore markets, with SurfCleaner notably partnering with renowned UK operation Briggs Marine to extend its market reach.

According to statistics from ITOPF (International Tanker Owners Pollution Federation) most oil spills originate near port. The non-profit organisation – which provides technical advice for ship-sourced spills – calculates that circa 80pc of tanker spills arise from operational incidents including loading, discharging and bunkering.

"There were a number of specific areas where the SCO 1000 impressed our client during the pine oil clean-up operation," added Ricardo. "Firstly, the speed in which we tackled the issue. Our streamlined and lightweight machines are easy to transport and deploy in restricted locations. They can be moved by one person and run autonomously if necessary, managing oil spills across different areas, from wells, basins, plant operations to the harbours themselves.

Secondly, SurfCleaner's machines are also the only systems in the world capable of removing and separating water sheen, which is particularly relevant in oil-spill clean ups, removing the need for costly absorbents. Due to the level of performance, the client has kept the machines on site through a rental agreement, with a view of purchasing long term."

The SCO 1000 device requires just 20W on average of electricity, equivalent to a small household lightbulb, making it ultra-energy efficient. Other comparable devices require circa 7.5KW, close to 13 times the energy demand. This low power profile means devices can be operated using mobile batteries for up to four days.

Around 40 SurfCleaner units have now been installed in the oil-water separation segment, serving a variety of customers including the Swedish Coast Guard, Preem Refinery, Esso Refinery, Sonatrach Refinery, Exxon Mobil and Ports of Stockholm.

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NURDLES - PREVENTION, CLEAN-UP TECHNOLOGY AND ONGOING R&D WORK



The ISCO Executive Committee is looking into how our organisation can assist by co-operating with others in promulgating better prevention and response capabilities that can be adopted on a worldwide basis. Readers of the ISCO Newsletter are invited to contribute information that can be shared within our community and help to improve our capability to counter this pollution in more effective ways.

ISCO Committee Member, Dr Larissa Montas, is now a regular contributor to this section in the ISCO Newsletter,

We want to update you on what's been happening, and what's to come.

The problem of nurdle pollution in the marine environment is worldwide and public awareness of this issue has increased considerably in past years. Stakeholders of locations impacted by nurdle spills have turned to spill response professionals looking for effective solutions and answers regarding clean up technologies. Many organizations including a number of ISCO members who have stepped up to the challenge of developing innovative technologies to tackle nurdle spills. In the coming weeks we will endeavour to inform our readers about these efforts ahead of the International Maritime Organisation (IMO) event next month, where the classification of nurdles as a hazardous substance will be discussed in relation to transportation at sea.

Following the X-Press Pearl accident, Sri Lanka submitted a paper to the IMO's Marine Environment Protection Committee recommending that the classification of all plastic pellets be amended under MARPOL Annexes III and V and the International Maritime Dangerous Goods (IMDG) Code. Norway also submitted an augmented proposal, requesting an amendment to the criteria for the identification of harmful substances in MARPOL Annex III, the identification of nurdles as harmful substances and classified as a marine pollutant as per the IMDG code. This would trigger changes to labelling, loading, stowage and handling practices of all ship-bound pellets. The results of the Correspondence Group tasked with considering the options to reduce the environmental risk associated with the maritime transport of nurdles and advise on the best way forward will be presented in the 10th Session of the Sub-Committee on Pollution Prevention and Response to be held in April 2023. More details on proposed amendments available here: <https://www.ics-shipping.org/wp-content/uploads/2022/02/PPR-9-15-1-Proposed-amendments-to-the-criteria-for-the-identification-of-harmfulsubstances-in-package...-Cook-Islands-Jamaica-Mo....pdf>

Flora and Fauna International has launched a new information hub to support non-government organisations (NGO's) fighting nurdle pollution all over the world. As part of this initiative the organisation has released a report assessing the magnitude of nurdle pollution and making recommendations for managing this issue. The most significant recommendation is that the IMO classifies nurdles as marine pollutants. Additionally, the IMO is urged in the report to ensure that its forthcoming International Convention on Liability and Compensation for Damage in Connection with the Carriage of Hazardous and Noxious Substances by Sea includes pellets. The report can be downloaded here: https://www.fauna-flora.org/app/uploads/2022/09/FF_Plastic_Pellets_Report-2.pdf

The non-profit organization CE Delft has released a report that evaluates the effectiveness and feasibility of the three regulatory options identified by the Correspondence Group within the IMO's Pollution Prevention and Response Subcommittee. The CE Delft concludes that all options would be feasible to implement by actors in the transport chain, regulators and inspectors. The additional costs of all options appear to be manageable, based on feedback from interviewees. More details available here: <https://cedelft.eu/publications/preventing-spills-of-plastic-pellets/>

SCIENCE & TECHNOLOGY

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RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS



A COLUMN CREATED BY DR. MERV FINGAS, MEMBER OF ISCO COUNCIL

This is part of a weekly column which provides the references and abstracts of new peer-reviewed scientific publications on oil spills. These references are selected on the basis of those papers that provide new insights into the fate, effects and control of oil spills. Readers may choose to obtain the full publications and to do so, one of three methods is suggested; contact your library, search the internet with the DOI (digital object identifier) provided, or search the internet for the exact title. These are given in the order of likely success in obtaining the article. Merv Fingas, ISCO Colleague.

71. Environmental risk of oil pipeline accidents

Lu, H., Xi, D., Qin, G.
(2023) Science of the Total Environment, 874, art. no. 162386,
DOI: 10.1016/j.scitotenv.2023.162386

ABSTRACT: Oil spills from pipeline accidents, caused by either material degradation or improper operation, can result in long-lasting environmental damage to soil and water. Assessing the potential environmental risks of these accidents is crucial for effective pipeline integrity management. This study calculates the accident rate using Pipeline and Hazardous Materials Safety Administration (PHMSA) data and estimates the environmental risk of pipeline accidents by factoring in the cost of environmental remediation. Results show that crude oil pipelines in Michigan pose the highest environmental risk, while Texas has the highest environmental risk for product oil pipelines. On average, crude oil pipelines have a higher environmental risk (56,533.6 US dollars·times·mile⁻¹·year⁻¹) compared to product oil pipelines (13,395.6 US dollars·times·mile⁻¹·year⁻¹). Factors affecting pipeline integrity management are also analyzed, including diameter, diameter-thickness ratio, and design pressure. The study finds that larger pipelines with higher pressures receive more attention during maintenance and thus pose a lower environmental risk. Furthermore, underground pipelines pose a much higher environmental risk than pipelines in other environments, and pipelines are more vulnerable in the early and mid-stages of operation. The leading causes of environmental risk in pipeline accidents are material failure, corrosion, and equipment failure. By comparing environmental risks, managers can better understand the strengths and weaknesses of their integrity management efforts.

72. Water tables and drainage characteristics of intertidal sediments: Lessons for (and from) oil spill response and remediation

Little, D.I.
(2023) *Estuarine, Coastal and Shelf Science*, 283, art. no. 108245,
DOI: 10.1016/j.ecss.2023.108245

ABSTRACT: This study aims to: 1) observe intertidal drainage patterns in a range of sedimentary shores; 2) predict the shoreline behaviour and fate of oil; and 3) 'invert' these objectives by using well-documented spill data to calibrate predictions of drainage. Transect surveys of twelve (12) shores in the United Kingdom (UK) and Ireland with different sediments and tidal ranges highlighted intertidal drainage variability. Periods of low water (emersion) on spring and neap tides were studied in spring and autumn. Using piezometers, tensiometers, surveying, and sediment grain size analysis, 346 water table 'cases' were analysed by correlation and multiple regression. Sediment elevation, distance downshore and grain size parameters were selected by multi-regression to 'explain' statistical variability in drainage. For sands, drainage was explained (percentage reduction in the regression sums of squares) by distance downshore in combination with phi standard deviation (27%) for neap tides, and by distance downshore with phi mean (38%) for spring tides. In muds, drainage was also explained by distance downshore with phi mean (76%) for neap and (26%) for spring tides. The drainage (ebb) and imbibition (flood) curves during emersion were ebb-asymmetrical (i.e., slow ebb-tide drainage) in fine-grained sediments due to their low permeability, and more symmetrical (U-shaped) in coarser sediments with higher permeability and quicker ebb-tide drainage. Contrasts between spring and neap tides were due to more water entering the beachface on spring tides leading to slower, shallower ebb-tide drainage. On marshes, this depended on spring high tides overtopping the vegetated plateau. Seaward-decreasing amplitudes of water table fluctuations on sand shores were locally modified by bar and trough topography. The multi-regression models were then used successfully to predict drainage characteristics on shores affected by significant spills with varying sensitivities to oil pollution. The 1989 'Exxon Valdez' spill provided an excellent opportunity to ground truth the model predictions, having used similar surveying, hydrology and sedimentology methods to the UK/Ireland study. Coarse, dry sandy gravels allowed oil infiltration, some of which persisted due to lower-energy waves than expected (resulting in higher sensitivity) and due to organic-rich laminations. Despite low sediment matrix permeability, some muddy sediments elsewhere allowed oil penetration via biogenic macropores (e.g., UK spills in 1969 and 1983; Saudi Arabian mudflats and marsh in 1991 Gulf War; and Nigerian mangroves at Bodo in 2008). These examples: 1) confirm that deep oil penetration into sediments increased oil residence time, and 2) they endorse high sensitivity rankings for gravels, marshes and mangroves.

73. Weathering impacts on petroleum biomarker, aromatic, and polar compounds in the spilled oil at the northeast coast of Brazil over time

Lima, B.D., Martins, L.L., Pereira, V.B., Franco, D.M.M., dos Santos, I.R., Santos, J.M., Vaz, B.G., Azevedo, D.A., da Cruz, G.F.
(2023) *Marine Pollution Bulletin*, 189, art. no. 114744,
DOI: 10.1016/j.marpolbul.2023.114744

ABSTRACT: After the wide oil spill reached the northeast of Brazil, the resurgence of oil was recorded and to evaluate this oil in detail, two samples collected in the state of Pernambuco in 2019 and 2021 were submitted to multiple analytical techniques. For both, we have found similar saturated biomarkers and triaromatic steroid ratios, implying that they are from the same spilled source. The n-alkanes, isoprenoids, and cycloalkanes were almost completely degraded due to evaporation, photooxidation, and/or biodegradation processes. The preferential loss of less alkylated PAHs than the more alkylated ones suggests that biodegradation was the most active process. This hypothesis is reinforced by the formation of mono and dicarboxylic acids assessed by GC × GC-

TOFMS and ESI(-) FT-ICR MS high-resolution techniques. Furthermore, based on the ESI(-) FT-ICR MS results, three new ratios were proposed to evaluate the progress of the biodegradation process over time: Ox/O , SOx/SO , and SOx/N .

74. Buried and surface oil degradation – Evaluating bioremediation to increase PAHs removal through linear mathematical models

Stoichev, T., Mucha, A.P., Bernabeu, A., Almeida, C.M.R.
(2023) *Marine Pollution Bulletin*, 189, art. no. 114727,
DOI: 10.1016/j.marpolbul.2023.114727

ABSTRACT: A bioremediation approach with tide simulation for buried and surface oil degradation was tested for removal of two, three and four rings polycyclic aromatic hydrocarbons (PAHs). Linear models depicted degradation constants of individual PAH as simple additive function of their initial concentrations (CO) in contaminated sand, hydrophobicity, sampling layer and treatment conditions. For all PAHs and treatment conditions, the degradation of oil in buried layers was faster than at the surface. Naturally-occurring microorganisms proved to be efficient for bioremediation of PAHs and were stimulated by fertilizer addition (biostimulation, BS). Bioaugmentation (BA) by addition of a slurry of a native oil-degraders pre-stimulated consortium did not show faster PAH degradation than BS. Degradation was more rapid for PAH present at low CO and with intermediate hydrophobicity. Bioremediation of beach sand either with surface or buried crude oil is a cost-effective strategy to clean-up different hydrocarbon families, including persistent ones, such as PAHs.

75. Assessing the Effectiveness of Large-Scale Environmental Restoration: Challenges and Opportunities

Greening, H.S., Heck, K.L., McKinney, L.D., Diefenderfer, H.L., Boynton, W.R., Kleiss, B.A., Mishra, D.R., George, A.A., II, Kraft, B.A.C., Kling, C.A., Windecker, L.A.
(2023) *Estuaries and Coasts*, 46 (2), pp. 293-301.
DOI: 10.1007/s12237-022-01149-8

ABSTRACT: A recent National Academies consensus report addresses monitoring and assessment of cumulative effects of large-scale and multiple restoration projects within the context of long-term environmental change. Fines and penalties from the Deepwater Horizon oil spill in the Gulf of Mexico (GoM) have supported hundreds of restoration projects at spatial scales not often possible in the past. Here, the report committee members and staff provide personal reflections from our time working on the study. We found that gaps in data collection, issues with data accessibility, and a lack of synthesis and analysis are hindering the ability to answer a basic question: What are the impacts of these many restoration efforts on improving ecosystem health and productivity in the GoM at the regional and Gulf wide scale? Restoration efforts are occurring in environments where many trends are changing and exhibiting higher variability than in the past, suggesting that previously successful restoration practices may no longer be adequate to compensate for the effects of environmental changes and variability. Our proposed approach to these challenges includes employing emerging monitoring technologies; using conceptual models; devising an adaptive management framework; rethinking restoration outcome goals; assessing cumulative effects; and undertaking rigorous synthesis and analysis of existing information on long-term environmental trends and restoration efforts. Restoration scientists and practitioners working in the GoM have an unprecedented opportunity to demonstrate large-scale environmental recovery if advances in monitoring, synthesis, assessment, and action are taken quickly. We are cautiously optimistic that, with mid-course adjustments, continued progress toward large-scale environmental recovery is possible.

76. Deepwater Horizon Oil Spill Exposures and Long-term Self-rated Health Effects among Parents in Coastal Louisiana

Stroope, S., Slack, T., Kroeger, R.A., Keating, K.S., Beedasy, J., Sury, J.J., Brooks, J., Chandler, T.
(2023) *Disaster Medicine and Public Health Preparedness*, 17 (3-4), art. no. e329,
DOI: 10.1017/dmp.2022.223

ABSTRACT: Purpose: To assess whether exposure to the 2010 Deepwater Horizon oil spill (DHOS) was related to parents' self-rated health over time. Design: 3 waves of panel data were drawn from the Gulf Coast Population Impact study (2014) and Resilient Children, Youth, and Communities study (2016, 2018). Setting: Coastal Louisiana communities in high-impact DHOS areas. Participants: Respondents were parents or guardians aged 18 - 84, culled from a probability sample of households with a child aged 4 to 18 (N = 526) at the time of the 2010 DHOS. Measures: Self-rated health was measured at each wave. Self-reported physical exposure to the DHOS, economic exposure to the DHOS, and control variables were measured in 2014. Analysis: We used econometric random effects regression for panel data to assess relationships between DHOS exposures and self-rated health over time, controlling for potentially confounding covariates. Results: Both physical exposure (b = -0.39; P < 0.001) and economic exposure (b = -0.34; P < 0.001) to the DHOS had negative associations with self-rated health over the study period. Physical

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

exposure had a larger effect size. Conclusion: Parents' physical contact with, and economic disruption from, the 2010 DHOS were tied to long-term diminished health.

TRAINING COURSES

Training Course Providers – Please check entries below and advise editor on any necessary updates.

USEFUL LINKS

- INTERNATIONAL – IMO E-LEARNING PLATFORM [e-learning platform](#)
- AUSTRALIA – AMOSC - <https://amosc.com.au/training/>
- AUSTRALIA & NEW ZEALAND – ALGA - <https://landandgroundwater.com>
- CHINA - <http://www.sioetc.com>
- EUROPE – <https://www.emsa.europa.eu/newsroom/latest-news/item/3609-emsa-training-catalogue-2019.html>
- FRANCE - CEDRE - https://www.cedre.fr/en/content/download/10912/file/CalendrierFormation2023_EN.pdf
- UK & WORLDWIDE – OIL SPILL RESPONSE LTD. - <https://www.oilspillresponse.com/training/courses/>
- UK & WORLDWIDE – BRIGGS ENVIRONMENTAL SERVICES LTD. - <https://www.briggsmarine.com/services/training/>
- UK – NCEC HAZMAT ACADEMY – [More info](#)
- USA – TEXAS A&M UNIVERSITY – NATIONAL SPILL CONTROL SCHOOL <https://www.tamucc.edu/research/nscs/>
- USA – MPC, DETROIT - <https://marinepollutioncontrol.com/services/training-and-compliance>
- USA – ALLIANCE OF HAZARDOUS MATERIALS PROFESSIONALS - https://www.ahmpnet.org/events/event_list.asp

Members who would like to be listed here, please contact your editor – john.mcmurtrie@spillcontrol.org

CERTIFICATE IN ALTERNATIVE FUELS – LLOYDS MARITIME ACADEMY

Online, Starting 25 April 2023 Delivered by digital learning over 14 weeks. [Visit website for more info](#)

FRANCE: "Combating accidental oil pollution at sea and on the coast"

There are a few places left. Sign up! A few places are still available for the next session of the training "Combating accidental oil pollution at sea and on the coast" which will take place from 3 to 7 April 2023. Do not hesitate any longer and register. This training is delivered to IMO 2 standard. Find all the information about this training in its dedicated sheet. The next session of this training will take place from 05 to 09 June 2023.

USA: Elastec Fall Workshop, New Harmony, Indiana, 3-5 October 2023. [More Info](#)

UPCOMING EVENTS

TO VIEW UPCOMING EVENTS CLICK ON [HTTPS://SPILLCONTROL.ORG/UPCOMING-EVENTS/](https://spillcontrol.org/upcoming-events/)

To see ALL of the posted events you will need to click on "LOAD MORE" at the foot of each opened "upcoming events" page. Event organisers are requested to notify ISCO immediately if a listed event is cancelled or postponed. Your Editor does his best to keep the listing up-to-date but it should not be assumed that listed events have not been cancelled or postponed. It is recommended that you check with event organisers before finalising your attendance plans. Please advise the Editor if any of the entries require correction or updating. If you are holding an event you would like to be featured here, please send details to John.mcmurtrie@spillcontrol.org

MARCH 2023

- USA - OSPR/Chevron– Hybrid Spill Resonse Technology Worklshop. California, 27-30 March
- PERU – IOPC Funds National Workshop, 28th March.
- ONLINE TRAINING FFROM HELMEPA – "MARPOL at 50 & Other Environmental Conventions", 28-29 March
- IRELAND – UK & Ireland Spill Association – Regional Networking Event – Belfast, 29th March 2023
- WEBINAR – Maritime Solutions- Classification of Pellets as Harmful at Sea, 29th March, 9.30-10.30 am GMT

APRIL 2023 & ONWARDS

- UK & ONLINE – IMO, IOPC Funds & Transport Canada, HNS Workshop, 3-4 April 2023
- UK – IMO Workshop on 2010 HNS Convention, 3-4 April 2023
- OSRL WEBINAR – "SUBSEA RESPONSE READINESS", WEDNESAY 5 APRIL, 1400 GMT
- USA – CLEAN WATERWAYS CONFERENCE & EXHIBITION, DENVER CO, 11-13 APRIL 2023
- WEBINAR FROM UK SPILL & IRELAND ASSOCIATION – "SUSTAINABLE SPILL RESPONSE", WEDNESDAY 19 APRIL, 1500 BST
- CROATIA – ADRIASPILLCON Conference & Exhibition, Opatija, 16-18 May 2023
- CANADA – 45th Technical Seminar on Environmental Contamination & Response, Edmonton, Alberta, 4-6 June, 2023
- AUSTRALIA – University of NSW, "Bioremediation Symposium", 7th June 2023
- TUNISIA – Regional Workshop on Waste Management & Water Treatment, 9-10 May 2023

UPCOMING EVENTS (CONTINUED)

- FRANCE - European Maritime Day, Brest, France, 24-25 May, 2023
- UK: Hazmat 2023 Conference, 24-25 May 2023
- AUSTRALIA – Risk Assessment Symposium, Adelaide, 22 June 2023
- USA – Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023
- UK – Seatrade Maritime Salvage & Wreck Conference, 6-7 December 2023

WHEN YOU OPEN THE UPCOMING EVENTS PAGE YOU WILL SEE MORE UPCOMING EVENTS

SOME OTHER INFO AND UPCOMING EVENTS

Australia – April 26 & 27 – PFAS Training & Workshop, University of Technology, Sydney – [More info](#)
USA: May 8, 2023 - APICOM GM Meeting, Santa Barbara, CA, Location - MSRC's facility at Carpinteria
Recordings of past EM OSR Knowledge Transfer Webinar Recordings – [Access and Download](#)

MESSAGES FROM EVENT ORGANISERS

USA: COLORADO - CLEAN WATERWAYS 2023, DENVER, 11-13 APRIL, 2023

Clean Waterway takes place at the Hilton Denver City Center Hotel in Denver, CO, on April 11-13. [More News re conference & abstract submission](#) [Registration](#) [Introduction to the Planning Committee](#) [EXHIBIT SPACE AND SPONSORSHIPS ARE AVAILABLE](#) [Agenda](#). [Updated information received on 8th February](#)
[Preview the speaker & session officer line-up for clean waterways 2023](#)
[View Conference Programme](#)

CROATIA: ADRIASPILLCON 2023, OPATIJA, 16th - 18th MAY, 2023

ADRIASPILLCON 2023 will be held in Opatija, Croatia, between 16 and 18 May 2023 and is being organized by ATRAC - Adriatic training and education centre for accidental marine pollution preparedness and response, with the support of the Ministry of Maritime Affairs, Transport and Infrastructure. The Conference, complemented with an exhibition of relevant products and services, aims at providing a forum for exchange of experience and knowledge in the fields of prevention, preparedness for and response to accidental marine pollution by oil and other hazardous and noxious substances (HNS), among the participants from the Adriatic region and their counterparts from other parts of Europe and the Mediterranean.

All the relevant information is now available on the Conference website <https://adriaspillcon.com/>.

CANADA: 45TH AMOP TECHNICAL SEMINAR ON ENVIRONMENTAL CONTAMINATION AND RESPONSE: EDMONTON, 6-8 JUNE 2023

The Seminar provides a forum for professionals working in the field of oil and hazardous materials spills. The forum facilitates the transfer of scientific results and is intended to link research and the operational community. All submitted papers are peer-reviewed by scientific and technical experts. The Technical Seminar features plenary sessions of 10- or 20-minute presentations on spill-related topics including Chemical, Biological, Radiological, Nuclear, and Explosives (CBRNE). Sessions will begin at 8:00 a.m. each day. The presentations are followed by a 5- or 10-minute question and answer period. Sessions may also conclude with Speaker's Corner presentations at which results of more recent research can be discussed without an associated paper. Government of Canada / [Seminar Information](#)

AUSTRALIA: BRISBANE - SPILLCON 2023: 11-15 SEPTEMBER 2023

The Australian Institute of Petroleum (AIP) and the Australian Marine Oil Spill Centre (AMOSC) invite you to attend the international oil spill conference for the Asia-Pacific region, Spillcon 2023. Spillcon 2023 will bring together local, regional and global environmental and shipping representatives across industry, government and non-government organisations to provide an avenue to discuss issues including causes and prevention, preparedness, response management and environmental issues. Spillcon 2023 has been confirmed for 11 – 15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. This website will be regularly updated with further information for sponsors, exhibitors and delegates. <https://www.spillcon.com/>

USA: CLEAN GULF CONFERENCE & EXHIBITION – SAN ANTONIO, NOVEMBER 7-9, 2023

Now Accepting Reservations for Exhibit Space and Sponsorships for CLEAN GULF 2023 - Make an impact on buyers from oil & gas, maritime, rail, environmental companies and regulatory agencies with an exhibit space or sponsorship at the [CLEAN GULF Conference & Exhibition](#). Attendees at CLEAN GULF are looking for new products, services, and technologies to help them better prepare or respond to a hazardous spill or environmental emergency.

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

USA: IOSC 2024 CALL FOR PAPERS AND POSTERS

The International Oil Spill Conference (IOSC) brings together the broadest range of global oil spill response professionals to discuss the latest research, technology, and resources impacting our community today. Submit a proposal to become a leader at our next convening in New Orleans, Louisiana, May 13 - 16, 2024. The IOSC is looking for technical and policy papers and posters under five general categories: Preparedness, Prevention, Remediation, Response, Restoration. [More info](#)
You are invited to submit a proposal by April 24, 2023 for either a paper or poster presentation. [More info](#)

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

INTERNATIONAL OPEN TENDER NOTIFICATIONS

This is a subscription service. <https://www.tender247.com/keyword/oil+spill+tenders+global>

OTHER OPPORTUNITIES: USA & EUROPE

US Government solicitations are frequently posted in Technology Innovation News Survey <https://clu-in.org/products/tins/> US EPA Tech Direct <https://clu-in.org/techdirect/archive/> and USA Federal Contracts Updates <https://clu-in.org/Federal-Contract-Opportunities> European Maritime Safety Agency invitations to tender are often posted in The EMSA Newsletter <https://www.emsa.europa.eu/newsroom/newsletters.html>

TEXAS GENERAL LAND OFFICE (GLO) – OIL SPILL PREVENTION & RESPONSE DIVISION (OSPR) FUNDING OPPORTUNITY

The GLO OSPR Research & Development Program's Request for Applications has been posted to the GLO website here: <https://www.glo.texas.gov/coast/grant-projects/osr/index.html>

Applications are managed through SurveyMonkey Apply (SMA). First time SMA users will need to create an account. Navigate to the Oil Spill R&D portal to get started. If you have any questions, contact me at brent.koza@glo.texas.gov. Brent Koza, State Scientific Support Coordinator, Research & Development, Texas General Land Office. [Thanks to Helena Rowland, ISCO Committee]

US NAVY - WORLDWIDE US NAVY TRAINING OPPORTUNITY FOR SMALL BUSINESS.

The Naval Facilities (NAVFAC) Expeditionary and Engineering Warfare Center (EXWC) has a requirement for instructors to provide on-site instruction, including materials and logistics, of oil spill response training courses at Navy and Marine Corps activities or facilities worldwide. These courses fulfill Navy and Federal regulations – particularly OPNAV M5090.1 Chapter 39, Oil and Hazardous Substance Spill Prevention and Response, and 29 CFR 1910.120, Hazardous Waste Operations and Emergency Response. [More info](#)

EMSA: REQUIREMENT FOR OIL SPILL RECOVERY VESSELS

In order to strengthen its response capacity network EMSA announces the launch of a procurement procedure to contract a new stand-by oil spill recovery vessels in the following areas: Baltic Sea; Canary Islands and Madeira. More details are provided in the [procurement section](#).

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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<https://spillcontrol.org/2021/10/19/links-for-downloading-and-reading-other-publications/>

As a service to its Members ISCO provides a listing of publications that may be of interest to our community. This page provides details and links for downloading more than 40 publications most of which can be accessed at no cost. ISCO depends on regular receipt of updated URL links for listed publications. If these are not received, relevant entries will be discontinued.

SAFETY BRIEFING

BACK TO BASICS, EHS ADMINISTRATION, EMERGENCY PREPAREDNESS AND RESPONSE

March 20 - Back to Basics is a weekly feature that highlights important but possibly overlooked information that any EHS professional should know. This week, we examine oil spills and OSHA's recommendations for preparedness.

Oil spill emergencies pose great threats to both the safety of workers and the environment. According to OSHA, employers are

SAFETY BRIEFING (CONTINUED)

responsible for protecting workers from the anticipated hazards associated with responding to oil spill emergencies and participation in recovery operations.

An oil discharge, or spill, is defined by OSHA as the release of a liquid petroleum hydrocarbon into the environment, and it is a form of pollution. The National Contingency Plan (NCP), which is the federal government’s blueprint for responding to oil discharges and releases of hazardous substances, defines oil discharge as any spilling, leaking, pumping, pouring, emitting, emptying, or dumping of oil, and generally excludes discharges that require compliance with certain permits. Oil discharge also means substantial threat of discharge. The NCP defines oil as any kind of oil in any form, including petroleum, fuel stage oil, sludge, oil refuse, and oil mixed with wastes but not dredged spoil.

Actions taken in response to oil spills, such as stopping the oil spill or containing the spilled oil, are considered “emergency response” activities under OSHA’s Hazardous Waste Operations and Emergency Response (HAZWOPER) standard. Oil spill cleanup sites may be considered or may become hazardous waste sites and must follow the HAZWOPER requirements for hazardous waste sites. EHS / [Read more](#)

NEW PUBLICATIONS

EMSA NEWSLETTER FOR MARCH 2023



In this issue: EMSA Administrative Board Reviews Achievements and Introduces New Services in First Meeting of the Year; MEPs from European Parliament’s Transport and Tourism Committee visit EMSA to gain insight into the Agency’s work; EMSA marks International Women’s Day with Special Conference on Gender Diversity in the maritime sector; EMSA Launches New Service of Remotely Operated Vehicles for Underwater Accident Investigation; EMSA Hosts Successful 22nd CleanSeaNet User Group Meeting; CISE a step closer to entering operational phase following Stakeholder Group meeting; Upgraded MED Portal offers Improved Navigation, Enhanced Accessibility, and More; EMSA delivers successful IMSAS training courses to Egypt and Morocco in preparation for 2024 audits; Marine Pollution Experts Gather in Finland for DBX EU MODEX Exercise and Conference; Finnish Border Guard Deploys Arctic Skimmer for In-Country Training.

[Download the March 2023 issue of the EMSA Newsletter](#)

INCIDENT REPORTS

MARITIME ACCIDENT REPORTS FROM THE MARITIME BULLETIN

In the Maritime Bulletin, Mikhail Voytenko regularly advises on vessel abandonments, groundings and sinkings – several every week – but, unless there is an immediate and significant release of oil or chemicals, spillages are not reported. However, many of Mikhail’s reports cover incidents that may have potential to cause pollution. To view all of his reports, visit <https://www.maritimebulletin.net/>

PHILIPPINES: MT PRINCESS EMPRESS OIL SPILL UPDATES



Together with an oil spill boom and skimmer, the Philippine Coast Guard (PCG) is seen circling around the suspected area of the sunken oil tanker MT Princess Empress at the northeast of Balingawan Port, Lucta Port, and Buloc Bay in Oriental Mindoro on March 14, 2023.

PHOTO: Malayan Towage and Salvage Corporation via Philippine Coast Guard

March 19 – Robot to help “plug” sunken tanker to arrive in the Philippines [MFame](#)

March 19 - PCG welcomes possible international help in oil spill clean-up [PhilStar Global](#)

March 20 - Mindoro oil spill reaches Isla Verde, Batangas City [ABS CBN News](#)

March 20 - Over 150,000 people affected by Mindoro oil spill, says DSWD [ABS CBN News](#)

March 20 - US Coast Guard eyes aid in oil spill response [PhilStat Global](#)

March 21 - Leaking Tanker Found After Three-Week Search [gCaptain](#)

March 22 - American experts arrive in Mindoro to help in PH oil spill response [Inquirer](#)

March 24 - US provides add'l P10-M aid to Mindoro oil spill response [Philippine News Agency](#)

CHILE: MARITIME AUTHORITY WORKED ON THE CONTAINMENT OF STAIN IN THE BAY OF VALPARAÍSO

March 15 - To control the emergency, resources from the Port Captaincies of Valparaíso, Algarrobo and Quintero were deployed with equipment from two pollution control centers. On Tuesday morning a dark spot was evident in the bay of Valparaíso, so the Port Captaincy activated its Local Center to Combat Pollution, with the aim of containing and recovering the harmful substance.

The Maritime Governor of Valparaíso, Captain of Coastal Ship, Javier Mardones, indicated that containment has been executed with 33 absorbent barriers to then carry out sweeps in the contaminated sector and try to recover the material, through manual means. "The Maritime Authority deployed six maritime units with the support of an aircraft and more than 80 naval servers, which have worked throughout the day to recover this material," said the Maritime Governor. [Direcetemar / Read more](#)

EGYPT: THE MINISTER OF ENVIRONMENT PUSHES AN URGENT COMMITTEE FROM THE MINISTRY TO INSPECT THE OIL POLLUTION IN AL-SUWAI SA BEACH IN SUEZ GOVERNORATE

March 18 - Dr. Yasmine Fouad, Minister of Environment, issued her directives to quickly take urgent measures to control the oil pollution that appeared in Al-Suwaisa Beach in Suez Governorate, after receiving a report to the Central Operations Room at the Ministry of Environment about the existence of pollution. It was found from the inspection that the pollution is heavy oil with an area of about 260 m length and from half a meter to 2 meters wide.

The Minister of Environment confirmed that pollution removal work is underway in coordination with the Suez Governorate and the petroleum companies operating in the region, and the central operations room of the Environmental Affairs Agency and the central administration of the Suez branch will continuously follow up the situation until completion and remove pollution and clean the entire beach. [EEAA / Read more](#)

KUWAIT OIL COMPANY DECLARES 'STATE OF EMERGENCY' AFTER OIL SPILL ON LAND

March 20 - The Kuwait Oil Company declared a "state of emergency" on Monday following an oil spill on land, in an incident decried by environmental activists as a 'recurring problem' in the energy-rich Gulf state. The emergency followed an "oil leak in the west of the country", the state-owned company said in a statement, as video posted by Kuwaiti media showed a gushing pipe surrounded by a large slick of oil. Teams have been dispatched to determine the source of the leak and contain the incident, Al-Amer said, declining to give the exact location or the extent of the spill. [Deccan Herald / Read more](#)

THAILAND: AUTHORITIES ON LOOKOUT FOR POSSIBLE OIL SPILL FOLLOWING FATAL EXPLOSION ON STORAGE VESSEL

March 20 - Authorities in Thailand are continuing to monitor the waters at one of the country's offshore oil fields for possible signs of pollution in the wake of an explosion on a floating storage and offloading (FSO) vessel earlier this month. An estimated 400,000 barrels of oil are contained within the FSO. The navy said it will prepare for the possible leakage of some of the onboard crude by pre-positioning spill response assets. [Baird Maritime / Read more](#)

PORTUGAL: PRODUCT TANKER BURNING OFF PORTUGUESE COAST

March 21 - Portuguese authorities are working to control a fire aboard a product tanker off the coast while they are also hoping to tow the ship further out to sea. So far, the fire is believed contained in the aft end of the vessel not reaching its cargo of jet fuel and diesel and there has not been an oil leak. However, the fire is continuing to burn with spectators along the shoreline posting photos of the burning ship which is less than two miles from the coast.

Emergency teams are also standing by and prepared with pollution response equipment. Marinha Portuguesa is assisting in calculating the drift, in part to prepare in case of an oil leak from the vessel, as well as calculating the movements of the vessel. This evening it was reported that they were putting a tow line on the burning vessel in an effort to move it further out to sea.

The Maritime Executive / [Read more](#)

March 22 - Portugal Tows Burning Tanker to Sea as Weather Front Approaches. Portuguese authorities are reporting that the fire aboard the product tanker Greta K remains active, but they believe it is under control. They were able to move the vessel further offshore as they plan their next steps while the National Maritime Authority has issued a warning for worsening weather and sea conditions on the west coast of the mainland starting on Thursday morning.



Product tanker Greta K was towed out to sea as the fire continues to burn in the engine room (Photo from Portuguese Navy)

“Everything remains the same as last night,” port commander Humberto da Silva Rocha said in a media briefing. The amount of smoke from the vessel was diminished but they continue to believe the fire is active in the stern section. So far, there has been no secondary ignition or oil spill. The 24,768 dwt product tanker is believed to be fully loaded with a cargo of jet fuel and diesel, in addition to the diesel and lubes for its own use. The vessel’s manager, K-Ships is reporting that they believe the fire has been contained within the engine room and possibly traveling up the funnel trunk. The Maritime Executive / [Read more](#)

UK: NORTHERN IRELAND - COUNCIL AND NIEA TO GET SPECIALIST CONTRACTORS TO TACKLE NEWRY CANAL OIL POLLUTION INCIDENT

March 21 - Specialist booms have been put in place by Newry, Mourne and Down District Council to try and contain an oil leak on Newry Canal. Seven days after the incident the smell of oil still wafts in the air and a black residue clings to grass and weed debris along the canal. Signs of damage appear over several hundred metres from the first Lock encountered on the Newry Canal Towpath to Canal Quay. A part of the canal that just over a week ago had ducks a-plenty is currently a danger zone for them.

The Northern Ireland Environment Agency has said that investigations into the cause of the pollution are still ongoing. A spokesperson for Newry, Mourne and Down District Council today said that "The Council along with the NIEA will be liaising with specialist contractors to agree a plan for remediation of the polluted area." Newry IE / [Read more](#)

INFORMATION FOR MEMBERS OF ISCO

MEMBERSHIP RENEWAL FEES – HAVE YOU RECEIVED YOUR INVOICE?

ISCO is grateful that most members pay their annual dues on time but unfortunately there are exceptions. ISCO’s Membership Director, Mary Ann Dagleish, sends out invoices but sometimes our mailing lists don’t pick up on changes of email addresses. If you have not received an invoice and suspect that your membership is due or overdue for renewal, please contact mrydetroit@aol.com

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