



## ISCO & THE ISCO NEWSLETTER

The International Spill Control Organization, a not-for-profit organization dedicated to raising worldwide preparedness & co-operation in response to oil and chemical spills, marine & freshwater pollution by plastics, promoting technical development and professional competency, & 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 & observer Status at the International Oil Pollution Compensation Fund

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## HEADLINE INTERNATIONAL NEWS

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## SCIENCE-BASED SOLUTIONS SHOULD DOMINATE UPCOMING PLASTIC PACT CONVENTION

May 23 - World leaders and environment ministers will gather in Paris on May 29, 2023, to negotiate the first legally binding international convention to end plastics pollution. This is the second round of negotiations on a global treaty to end plastic pollution after the Uruguay round held in November 2022.

The Uruguay round created an Intergovernmental Negotiating Committee, incorporating the UNEA member governments to develop a legally binding agreement on plastic pollution. The document will consider the full life cycle of plastic, provide financial and technical support for countries requesting such assistance and recognise the importance of waste pickers involved in collecting, sorting and recycling.

The United Nations Environment Programme (UNEP) has launched various negotiations for international governance of plastics and associated chemicals. To end plastic pollution and impactful measures, UNEP focuses on identifying gaps in governance and multilateral instruments from the Basel, Rotterdam, and Stockholm Conventions.

The UN body highlighted the complementarities and gaps within globally binding multilateral instruments, opportunities to strengthen governance of plastics based on globally agreed principles and approaches, and most importantly, potential mechanisms for closing the governance gaps across the entire life cycle of plastics and associated chemicals in a recently launched report. Down to Earth / [Read more](#)

## INTERNATIONAL & REGIONAL NEWS

### ITOPF 2024 R&D AWARD APPLICATION WINDOW ANNOUNCEMENT

May 19 - ITOPF's Research and Development (R&D) Award 2024 application window will be open from the 1st September to 2nd December with up to £60,000 available for short-term projects (1-2 years) and up to £40,000 for PhD projects plus a student stipend and university fees.

## ISCO AMBASSADORS

(Members with special responsibilities in specified geographical areas)

Carlos Sagrera Latin America (Spanish speaking)  
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## INTERNATIONAL & REGIONAL NEWS (CONTINUED)

The purpose of the award is to encourage and facilitate organisations worldwide to develop ideas to potentially provide solutions to some of the challenges faced by the spill response community. ITOPF / [Read more](#)

## EUROWA: NEW PACKAGE OF WILDx TABLETOPS LAUNCHED AT AUTHORITY WORKSHOP



*Photo courtesy of Eurowa*

May 24 - During the first week of May, authorities and wildlife experts met in Brussels for the EUROWA-2 workshop Integrated professional oiled wildlife preparedness and response. The workshop was also the launch of the brand new Wildx Tabletop exercise package, which allowed participants to explore different strategies for oiled wildlife response in an informative and interactive way. Eurowa / [Read more](#)

## ISCO NEWS

### MR TIM GUNTER HAS A NEW APPOINTMENT AND HAS RETIRED FROM THE ISCO COUNCIL

Mr Tim Gunter who was until recently head of the Texas A&M University Spill Response Training School and Member of ISCO Council for USA has moved to a new position with Exxon. As his new job is not focused on OSR he has decided to step down from the ISCO Council. The ISCO management team is grateful to Tim for his contribution and especially for successfully introducing Texas A&M students to Student Membership of ISCO. We wish Tim every success in his new appointment. A new Member of ISCO Council for USA has not yet been appointed.

## NEW PUBLICATION AVAILABLE ON THE ISCO SECTION FOR LATIN AMERICA WEBSITE IN SPANISH LANGUAGE: SUMMARY OF OIL SPILL AT SEA IV OF THE US NATIONAL ACADEMY OF SCIENCES

With the support of its co-author and ISCO EC Member, Ed Levine, ISCO publishes starting next week in the Latin American Section of the ISCO website, the Summary in Spanish of the excellent update work (a "Bible" class on our main topics) from the US National Academy of Sciences entitled "Oil Spill in the Sea IV" (Inputs, Fates and Effects). Edwin "Ed" Levine integrated in the role of Vice - Chair a notable Committee for its writing made up of the most select of the scientific community of the universities and scientific organizations of the US and other countries that collaborated (Canada, Norway, UK, etc. ).

The work of almost 500 pages in total was reviewed, among others, by Dr. Mervyn Fingas, member of the EC of ISCO, as well as other prestigious figures and references such as Gary Shigenaka from NOAA, etc. It is its fourth version, after the initial three from 1975 - 1985 - 2003, and although its statistical approach is exclusive to North America and mainly the USA, its scientific conclusions are projectable worldwide and in a special way constitutes an example of method for the necessary investigation and environmental approach to our issues with the oil industry and environmental authorities in Latin America, which is lagging behind its peers worldwide.

The titles of the main topics covered are among others: "Petroleum as a Complex Chemical Mixture"; "Phases and States of Petroleum

Fluids in the Sea"; "Inputs of Oil to the Sea (including Accidental Spills, Land Based Sources, Natural Seeps and Operational Discharges)"; "Accidental Spill Mitigation"; "Fates of Oil in the Sea"; "Effects of Oil in the Sea"; and a very important Chapter with Recommendations for leading authorities and organizations in the USA that we consider could well be projected to a large extent throughout Latin America. It only remains to hope that our spill control community in Latin America takes note of this news and takes advantage of this remarkable scientific work, updated and compiled, in order to apply and help in making effective decisions that are required, more and more in our sector. [Thanks to Carlos Sagrera, MSc., Hon. FISCO - ISCO Representative in Latin America]

## NEWS REPORTS FROM AROUND THE WORLD

### BRUNEI: WORKSHOP UNDERLINES IMPORTANCE OF OIL SPILL CONTINGENCY PLAN

May 19 - The Maritime and Port Authority of Brunei Darussalam (MPABD) organised a National Oil Pollution Preparedness, Response and Co-operation (OPRC) workshop held at The Centrepont Hotel, Gadong from May 16-18, to prepare stakeholders for and effectively respond to oil spills.

Delivered through a collaboration with the Global Initiative for Southeast Asia (GISEA) Project, an initiative under the International Maritime Organization (IMO), the workshop brought together national focal points from both private and government agencies through discussion-led sessions that enhanced participants' understanding of the Regional Oil Spill Contingency Plan (ROSCP), with a particular focus on the mobilisation and repatriation of people, equipment and material resources in the mutual offer and acceptance of assistance. The workshop was facilitated by marine pollution experts from ASEAN and the United Kingdom.

Borneo Bulletin / [Read more](#)

### CANADA AND THE GEF



May 15 - Canada was one of the founding members of the Global Environment Facility, whose creation in 1991 provided the financial means for developing countries to take action on biodiversity, climate change, pollution, ocean health, and the ozone layer.

In the three decades since, Canada's influence at the GEF has grown, as has its remit to address toxic chemicals, support more sustainable cities and food systems, improve the management of forests and waterways, and build a more resilient future, even in the most vulnerable places on Earth.

This publication provides an overview of the areas in which Canada has played a significant leadership role in and through the GEF, as well as those where a further deepening of the relationship holds opportunity for the years ahead.

[Click here for information](#) on the Seventh GEF Assembly, which will take place in Vancouver from August 22-26

### CANADA: AGREEMENT PAVES THE WAY FOR ESCORT TUGS, OIL SPILL RESPONSE

*Kotug Canada's K J Gardner – Photo courtesy of Kotug*

May 17 - Kotug International's Canadian joint venture will provide two escort tugs and an oil spill response vessel (OSRV) for an expanded tanker shipping route and terminal in British Columbia. Kotug Canada, a partnership between Kotug International and Horizon Maritime Services, has signed a mutual benefits agreement (MBA) with indigenous community Sc'ianew First Nation to supply seafarer training and provide an operational base and floating docking facility.

This is all connected to the Trans Mountain Expansion Project (TMEP), which will require two escort tugs and the emergency response vessel. Under the MBA, a floating docking facility will be installed in Cheanuh Marina in Beecher Bay, in Sc'ianew territory of British Columbia. Riviera / [Read more](#)





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### CANADA: CLOSING THE GAPS: CANADA'S PROPOSED RECYCLED CONTENT, LABELLING RULES AND REGISTRY FOR PLASTICS

May 22 - On Apr. 18, 2023, the Government of Canada published two long-awaited regulatory framework papers on new proposed measures to achieve its strategy of zero plastic waste by 2030. These measures include proposed requirements for minimum recycled content and mandatory labelling rules for certain plastic products. They also include the establishment of a Federal Plastics Registry.

The proposed measures form part of Canada's overall strategy to address plastic waste. On June 22, 2022, Canada proceeded with its single-use plastic ban by publishing the Single-Use Plastics Prohibition Regulations (the SUPR) under the Canadian Environmental Protection and Enhancement Act, 1999 (CEPA). The SUPR prohibit in phases the manufacture, import, export and sale of certain single-use plastics (SUPs) by the end of 2025. Mondaq / [Read more](#)

### INDONESIA: EFFECTIVE OIL SPILL CONTINGENCY PLAN PROTECTS SENSITIVE SHORELINE AREAS AND COMMUNITIES

May 19 - This paper presents the oil spill contingency plan adopted by Pertamina to protect sensitive areas on and around Java, the world's most populous island.

Java is the most populated island in the world and consists of many sensitive areas, include communities, fishery sites, mangroves, and recreational beaches. Pertamina has two major offshore oil and gas platform facilities near the Java Island shoreline— Pertamina Hulu Energi WMO Field and Pertamina EP Sukowati Field—that have the potential of releasing more than 100,000 bbl of crude oil into sea in case of emergency. Learning from previous oil spill events, controlling risk that could occur by establishing an effective oil spill contingency plan (OSCP) document is crucial for the company. Journal of Petroleum Technology / [Read more](#)

### KENYA: SUPPORT TO IMPLEMENT THE MARPOL CONVENTION

May 19 - Transposing the provisions of the International Convention for the Prevention of Pollution from Ships (MARPOL) into national legislation, to meet current and future obligations, was the focus of an in-person workshop in Mombasa, Kenya (15-18 May).

Through drafting exercises, presentations, the review of Kenya draft regulations implementing Annexes I to VI of MARPOL and of MARPOL Annexes in parallel, and group discussions, 13 legal drafters and technical experts from Kenya Maritime Authority were guided on the mechanisms that should be applied when developing and updating national legislation to ensure effective implementation of MARPOL in national legislation. Participants included graduates from the IMO International Maritime Law Institute (IMLI) and the World Maritime University (WMU). IMO / [Read more](#)

### MAURITIUS: PUBLIC OFFICIALS ASSIGN UNDER NATIONAL OIL SPILL CONTINGENCY

May 22 - Public officials assigned responsibilities under the National Oil Spill Contingency gathered this morning, at Le Labourdonnais Waterfront Hotel, in Port Louis, for a three-day Level 3 training course on Oil Pollution Preparedness, Response and Cooperation (OPRC). The training is an initiative of the Ministry of Blue Economy, Marine Resources, Fisheries and Shipping in collaboration with the International Maritime Organisation (IMO). News Invasion 24 / [Read more](#)

### NIGERIA: BAYELSA NEEDS \$12BN TO CLEANUP OIL SPILLS—REPORT

May 17 - The Bayelsa State Oil and Environmental Commission has revealed that the state requires \$12 billion to clean up decades-old oil spills, which precisely covers a 12-year period. This disclosure was contained in a new report issued by the commission on Tuesday. It also singled out major oil majors, Shell and Eni, for being responsible for most of the pollution. Business Post / [Read more](#)

### NIGERIA: OIL AMONG THE MANGROVE TREES: A PORTRAIT OF DESTRUCTION IN THE NIGER DELTA, THEN AND NOW

May 19 - There is change in Nigeria's Niger Delta: this year, farmers in the region reaped little to no harvest, a sharp contrast to the image of thirty years ago. Some residents, such as Aibakuro Warder, a 51-year-old mother of five, noted that before oil spills spoiled the earth, the yam harvest was bountiful, with some tubers growing up to three feet long. Today, Warder struggles to even pay the cost of her children's schooling with the revenue of her meager yield. Harvard.edu / [Read more](#)

### NIGERIA: NEW GOVERNMENT MUST ENSURE SHELL'S SALE OF ITS NIGER DELTA OIL BUSINESS DOES NOT WORSEN HUMAN RIGHTS ABUSES

May 26 - Nigeria's new government, which will be sworn in on 29 May, must ensure that Shell's planned sale of its operations in the Niger Delta, does not lead to a further deterioration in human rights in a region blighted by decades of oil pollution.



## NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

Amnesty International has documented grievous and enduring human rights abuses resulting from oil contamination in the area, where Shell has operated since the 1950s. Amnesty International is concerned that the proposed sale will deny people already harmed access to adequate remedy, and potentially expose many more to future abuses. Amnesty International / [Read more](#)

### NIGERIA: NUPRC SIGNS 7 NEW REGULATIONS TO TACKLE OIL THEFT, GROW ECONOMY



May 26 - The Nigerian Upstream Regulatory Commission (NUPRC), on Thursday, unveiled seven additional regulations, in a major step towards tackling oil theft, maximising the resource offerings of the petroleum sector and ultimately growing the nation's economy.

The move was inspired by the Petroleum Industry Act 2021, which empowers the Commission to design policy direction and regulations that will give meaning and intent to the spirit of the Act. The Sun / [Read more](#)

### USA: STATE OF THE STRAIT REPORT HIGHLIGHTS URGENT NEED TO CLEAN UP DETROIT RIVER

May 22 - The 2023 State of the Strait Report calls for "urgency" in cleaning up toxic sediment on the bottom of the Detroit River. Remediation is needed on the Detroit side but not on the Canadian side, according to the report. Detroit.umich / [Read more](#)

### USA: BSEE OVERSEES TWO SUCCESSFUL CAPPING STACK DRILLS IN THE GULF OF MEXICO



*Photo: Kevin Sligh, BSEE Director, addresses a crowd of BSEE responders, and Beacon Offshore Energy workers and contractors as they prepare to move a capping stack for a drill designed to test industry's ability to safely deploy it in case of an emergency, in Houston, May 7, 2023. (BSEE Photo/Bobby Nash)*

May 24 - The Bureau of Safety and Environmental Enforcement (BSEE) announced the successful completion of two Gulf of Mexico equipment deployment drills to evaluate the oil and gas industry's preparedness to respond to a subsea blowout. Each of the drills lasted between three and five days and were mobilized by Beacon Offshore Energy (BOE) and Chevron, along with their mutual aid partners to deploy, and install equipment to cap a blowout in deep water off the coast of Louisiana. BSEE / [Read more](#)

## NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

### USA: LATEST NEWS REPORTS FROM NOAA OR&R

May 30 – Please click on the links below to download and read the latest news from NOAA OR&R

#### **Trustees Release Draft Restoration Plan for the American Cyanamid Superfund Site in New Jersey**

NOAA and co-trustees are [seeking public comment](#) on a Draft Restoration Plan/Environmental Assessment (RP/EA) for the [American Cyanamid](#) Superfund site in Bridgewater, New Jersey.

#### **Tech Memo Published on Using Uncrewed Aircraft Systems to Enhance Marine Debris Detection and Removal**

Findings and recommendations from a project funded by the NOAA Uncrewed Systems Research Transition Office, and conducted collaboratively by NOAA's National Centers for Coastal Ocean Science, the NOAA Marine Debris Program, Oregon State University, and ORBTL AI, were recently published as a NOAA Technical Memorandum.

#### **Alaska Sea Grant Fellow Participates in Dutch Harbor Cleanup that Removed 17,200 Pounds of Litter and Debris**

In early May, Harmony Wayner, Alaska Sea Grant Fellow with the NOAA Marine Debris Program, traveled to Dutch Harbor, Alaska, to support its city-hosted annual cleanup. The yearly cleanup happens the first two weeks of May, with people picking up marine debris and litter at the community center. Nichel Kernin, the Recreation Program Coordinator for the city of Unalaska, organized the cleanup. Ocean Conservancy was a generous partner, donating gloves and snacks. The Qawalangin tribe of Unalaska also hosts beach cleanup events alongside this city effort.

#### **Marine Debris Program Participates in University of Rhode Island Global Plastics Forum**

On May 15 - 16, the NOAA Marine Debris Program's Northeast Regional Coordinator, Demi Fox, attended the [2023 URI Global Plastics Forum](#) ([link is external](#)), in Kingston, Rhode Island. The forum brought together representatives from local, state, national, and international organizations and agencies to exchange knowledge and share plans for upcoming efforts.

#### **NOAA Leadership Competencies Development Program Participants Conduct Marine Debris Survey**

On Friday May 12th, Phoenix Rising cohort members from the [NOAA Leadership Competencies Development Program \(LCDP\)](#) participated in a learning experience with the NOAA Marine Debris Program and conducted a [NOAA Marine Debris Monitoring and Assessment Project \(MDMAP\)](#) survey and beach clean-up.

## PEOPLE IN THE NEWS

### SCAA ANNOUNCES NEW SAFETY CHAIR, DOUGLAS TOWNSEND WITH SET ENVIRONMENTAL



May 24 - The Spill Control Association of America is excited to announce its newly elected Safety Committee Chair, Douglas Townsend! Douglas will be stepping in to fulfill these duties for Leanne Stegman. He has a degree in Environmental Science from the Ohio State University and over 25 years of industry experience and currently serves as the Corporate Compliance and Training Manager for SET Environmental, Inc. He is a member of the Corporate Safety Leadership Team where he supports annual strategic planning and budget reviews. He is a risk management/assessment expert and oversees the safety/ environmental audit inspection process. Douglas maintains the LMS (Learning Management System) SET University for the company. Douglas Townsend assists in setting goals for the company and works with the corporate safety director to enhance the overall safety culture. SCAA / [Read more](#)

### NIKOLAUS H. SCHÜES ELECTED BIMCO PRESIDENT

May 25 - BIMCO, the world's largest shipping association, has elected Nikolaus H. Schües, CEO and owner of Reederei F. Laeisz as President at the organisation's general meeting in Hong Kong on Thursday 25 May 2023.

Nikolaus H. Schües takes over as the 46th President of BIMCO and the first German national holding the position since 2011. He takes over from Sabrina Chao of Wah Kwong Maritime Transport Holdings Limited, who has completed her two-year term.

Nikolaus H. Schües joined Reederei F. Laeisz, which celebrates its 200th anniversary in 2024, in 1993. He is a member of the Presidential Committee of the German Shipowners Association, Deputy Chairman of the UK P & I Club, Member of the Norwegian Hull Club Committee and Member of the Board of Directors of the Schutzverein Deutscher Rheder.







*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 a regular contributor to this section in the ISCO Newsletter and her next update will appear in a later issue.*

## 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.

#### 129. Fingerprint characteristics of refined oils and their traceability in the groundwater environment

Sun, J., Wang, X., Song, Q., Li, R., Xie, J., Yang, X., Cai, L., Wang, Z., Zhao, C., Zhang, X.  
(2023) *Chemosphere*, 333, art. no. 138868,  
DOI: 10.1016/j.chemosphere.2023.138868

**ABSTRACT:** Chemical fingerprinting is essential for identifying the presence and responding to oil spills that frequently contaminate the groundwater environment of refineries. In this study, crude oil and oil products from the atmospheric and vacuum distillation units of a refinery were analyzed by gas chromatography-mass spectrometry (GC-MS) to evaluate their chemical variability before and after refinery. A series of experiments involving evaporation and soil column penetration were conducted to simulate refined oil spilling into groundwater and determine appropriate characteristic ratios (CRs) for principal component analysis (PCA) for oil source identification. The simulated study demonstrated that all products had bell-shaped n-alkane distributions, with dominant peaks that remained unchanged or shifted towards longer chain lengths compared to the source oil. Similarly, naphthalene and dibenzothiophene series remained the main PAH components like the source oil. Ten relatively stable CRs were selected for PCA to identify different oil products through the simulated experiments. The chosen CRs were then utilized to identify the sources for two groundwater oil spills recently occurred, one that occurred in an oil depot area, and another near a continuous catalytic reforming unit in a refinery. This study showed that the components with long-chain n-alkanes ( $n \geq C_{18}$ ), pristane, phytane, and phenanthrene and dibenzothiophene series PAHs played an important role in the identification of refined oil products spilling into the groundwater environment. The selected CRs provide an effective tool for rapid and accurate identification of oil spills, especially for newly occurring spills in the groundwater environment, which can aid in developing appropriate response strategies.

#### 130. Source apportionment and human health risk of PAHs accumulated in edible marine organisms: A perspective of “source-organism-human”,

Wang, H., Huang, X., Kuang, Z., Zheng, X., Zhao, M., Yang, J., Huang, H., Fan, Z.  
(2023) *Journal of Hazardous Materials*, 453, art. no. 131372,  
DOI: 10.1016/j.jhazmat.2023.131372

**ABSTRACT:** Most PAHs produced by human activities can be absorbed and accumulated by edible organisms and pose a potential hazard to human health. However, the source apportionment and human health risk of PAHs accumulated in edible organisms remains largely unknown. Therefore, we conducted source analysis and health risk assessment based on the PAH concentrations in ten marine fish from coastal areas of Guangdong, China. Results showed that the pollution of PAHs in fish organisms was at “Minimally polluted” level, and that all marine fish had the ability to accumulate PAHs. Risk assessment indicated Carcinogenic risk of PAHs in four populations was at a “Cautionary risk” level, with urban children suffered the highest risk. Petroleum pollution, Coal and biomass combustion, and Marine transport emissions were identified as the main anthropogenic sources for PAHs in organisms, and Marine transport emissions accounted for the highest Carcinogenic risk. The Acceptable daily intake for all populations were far below their actual daily intake without causing “Cautionary risk”. Our findings provide new insights into the source apportionment and health risk of PAHs from a “source-organism-human” perspective, and suggested that joint management of three anthropogenic sources would be an effective way to prevent the health risks of PAHs.



### 131. Spatio-temporal variation of the microbial community of the coast of Lebanon in response to petroleum hydrocarbon pollution

Hamdan, H.Z., Ahmad, F.A., Zayyat, R.M., Salam, D.A.  
(2023) Marine Pollution Bulletin, 192, art. no. 115037, .  
DOI: 10.1016/j.marpolbul.2023.115037

**ABSTRACT:** In this study, the coast of Lebanon was analyzed for the dynamic changes in sediment microbial communities in response to a major petroleum oil spill and tar contamination that occurred in the summer of 2021. Spatio-temporal variations in the microbial structure along the shores of Lebanon were assessed in comparison to baseline microbial structure determined in 2017. Microbial community structure and diversity were determined using Illumina MiSeq technology and DADA2 pipeline. The results show a significant diversity of microbial populations along the Lebanese shore, and a significant change in the sediment microbial structure within four years. Namely, *Woeseia*, *Blastopirellula*, and *Muriicola* were identified in sediment samples collected in year 2017, while a higher microbial diversity was observed in 2021 with *Woeseia*, *Halogramum*, *Bacillus*, and *Vibrio* prevailing in beach sediments. In addition, the results demonstrate a significant correlation between certain hydrocarbon degraders, such as *Marinobacter* and *Vibrio*, and measured hydrocarbon concentrations.

### 132. Hybrid Modeling of Persistent Shoreline Oil Residues on Abu Ali Island, Saudi Arabia: Extent, Degree, and Remediation Implications

Nixon, Z., Michel, J., Zengel, S., Cotsapas, L., Fravel, H., Weaver, J., Bambach, P.  
(2023) Journal of Marine Science and Engineering, 11 (4), art. no. 785,  
DOI: 10.3390/jmse11040785

**ABSTRACT:** Extensive intertidal asphalt pavements and oiled sediment accumulations extend more than 20 km along the northern shoreline of Abu Ali Island, located north of Jubail on the Arabian (Persian) Gulf coast of Saudi Arabia. This shoreline oiling likely originated from two platforms in the Nowruz oil field, which spilled oil from 1983 to 1985; this was one of the largest marine spills in history, with shoreline impacts that were little known. In this study, we used a novel methodology that combined remote sensing analyses with hybrid machine learning–geostatistical modeling of field-collected data to quantify the distribution, extent, and volume of these contaminated sediments to investigate the mechanisms for their persistence and to support the development of remediation plans. After nearly 40 years, approximately 25,000 m<sup>3</sup> of contaminated sediments remain, with nearly 50% of these buried underneath clean sediments. The presence of exposed or subsurface carbonate beach rock platforms or ramps clearly influences the ongoing persistence of these asphalt pavements by protecting them from physical energy and sediment mobilization. These rock platforms complicate potential remediation options, with more than 66% of the modeled volume of asphalt pavement estimated to be directly on top of and in contact with carbonate beach rock. The asphalt pavements present persistent ongoing PAH toxicity and continually shed smaller fragments when exposed to wave energy along with localized sheens and liquid oil, presenting a pathway for ongoing chronic exposure of biota.

### 133. Assessing translocation success and long-distance homing in riverine turtles 10 years after a freshwater oil spill

Otten, J.G., Williams, L., Refsnider, J.M.  
(2023) Conservation Science and Practice, 5 (4), art. no. e12922,  
DOI: 10.1111/csp2.12922

**ABSTRACT:** Wildlife translocation is often used as a mitigation strategy for construction projects and other disturbances to habitat. In 2010, one of the largest freshwater oil spills in the United States occurred in the Kalamazoo River in Michigan, when over 3.2 million L of diluted bitumen crude oil impacted nearly 56 km of riverine habitat. During 2010 and 2011 cleanup efforts, 686 northern map turtles (*Graptemys geographica*) were captured from oil-impacted stretches of the river, cleaned, rehabilitated, and translocated 2.5–84.3 km from their original capture location. The goal of this translocation effort was to release turtles within the same watershed, but away from ongoing cleanup operations, so individuals could potentially return to their original home range after it had been cleaned of oil and restored. In this study, we evaluated the success of translocation as an emergency mitigation strategy for freshwater turtles by quantifying recapture probability and homing by northern map turtles translocated varying distances from their home ranges. During subsequent years of survey up to 10 years post-spill, 230 of the translocated turtles were recaptured, of which 104 exhibited homing by returning to their original home ranges. Turtles translocated to sites nearest their original capture location had a higher probability of recapture and homing than those translocated further away. Females had a higher probability of returning to original home ranges than males when translocated greater distances. In addition, four females and one male are known to have traveled >50 km between capture and release locations, which to our knowledge is the greatest

travel distance recorded for any freshwater turtle species in the United States. Our results demonstrate that riverine turtles have considerable homing ability when displaced long distances, which has important implications for design and success of translocation projects.

### 134. Insights about levels and source appointment of petroleum hydrocarbons in Brazilian semi-arid coastal: baseline status assessment for ocean decade targets

de Oliveira, A.H.B., Fernandes, G.M., dos Santos, F.R., de Almeida, N.M., Nogueira, T.R., de Quadros Melo, D., Martins, L.L., Cavalcante, R.M., do Nascimento, R.F., Reddy, C.M.

(2023) Environmental Science and Pollution Research, 30 (20), pp. 58002-58018.

DOI: 10.1007/s11356-023-26600-6

**ABSTRACT:** The Ocean decade (2021–2030) for sustainable development proclaimed in 2017 by the UN, seeks to promote and conserve the sustainable use of oceans, seas, and marine resources. For this, the distribution of n-alkanes, polycyclic aromatic hydrocarbons (PAHs), and biomarkers, in sediments from the Fortaleza coastal zone (Mucuripe harbor (MH) and Inner Continental shelf (ICS)) were used to assess the impacts of anthropogenic activities in the area. The concentrations of total n-alkanes ( $\Sigma 16$  n-alkanes) in MH and ICS sediments varied from 35.9 to 94.9 and 17.9 to 197.3  $\mu\text{g g}^{-1}$ , respectively, while the isoprenoids phytane and pristane in MH and ICS sediments ranged from 0.1 to 1.69  $\mu\text{g g}^{-1}$  and from 0.14 and 1.20  $\mu\text{g g}^{-1}$ , respectively. Most of the sediment samples presented carbon preference index (CPI) values close to unity, indicating that the area is submitted to petroleum-related sources. The concentrations of  $\Sigma 16$  PAHs in MH and ICS sediments varied from 87.0 to 562.0 and 98 to 288.0  $\text{ng g}^{-1}$ . This work presents the first investigation of the petroleum biomarkers hopanes and steranes in the Fortaleza coastal zone, in which  $\Sigma$  biomarkers varied from 0.10 to 1.79 and 0.02 to 0.24  $\mu\text{g g}^{-1}$  in MH and ICS sediments, respectively. The presence at stations of biomarkers also indicates petrogenic input. The diagnosis of the distribution of pollutants in the investigated zones of the Fortaleza coast suggests contamination from urban areas and oil spills and vessel traffic.

## SCIENCE & TECHNOLOGY (

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### OCEAN MICROPLASTICS SHOW UP IN ARCTIC ICE ALGAE

May 14 – From Deonie Allen, Melanie Bergmann and Steve Allen, Alfred Wegener Institute. Last summer, we travelled to the remote Arctic Hausgarten observatory area in the eastern Fram Strait (west of Svalbard, Norway) on a research ship.

The samples we collected there included ice cores, sea water and ice algae from large packs of floating ice called ice floes. These form 1–2 meter thick “plates” of sea ice across the Arctic Ocean, some of which melt over the summer period. Algae grow on the underside of these ice floes. *Melosira arctica* – nicknamed “snot” due to its sticky, slimy and green nature – is one of the major algae species in the Arctic Ocean. It is an essence we’ve found that Arctic ice algae contain microplastics. This in itself may not be surprising: plastic has been found in every environment so far investigated on Earth. But the quantities we found were startling.

We discovered an average of 31,000 microplastic particles per cubic meter of *Melosira arctica* – a magnitude ten times higher than recorded in the surrounding water. Most of these particles were very small (less than 10 micrometers) and included many different types of plastic. The contamination of the ice algae could have major consequences for ecosystems and the climate. tial organism both in the Arctic food web and for marine life overall. The Maritime Executive / [Read more](#)

### STUDY ON ENHANCED P-NITROPHENOL SOIL POLLUTION REMEDIATION BY LOW-TEMPERATURE DEGRADING STRAINS

May 27 - Nitrophenol is a common organic pollutant, and its existence in soil will cause harm to the ecological environment and human health. Traditional soil remediation technology has problems such as high cost and difficult to guarantee the effect, so it is particularly important to develop efficient, economical and environmentally friendly soil remediation technology.

In recent years, the use of microbial technology to remediate contaminated soil has received widespread attention, and low-temperature degrading strains, as a class of microorganisms that can degrade organic pollutants in low-temperature environments, have received more and more research attention. Research status and prospects of low-temperature degrading strains intensified p-nitrophenol soil pollution remediation. We will discuss the screening and identification of low-temperature degrading strains, the analysis of soil pollution, the principles and advantages of the enhanced remediation technology of low-temperature degrading strains, in order to provide new ideas and methods for the remediation of nitrophenol soil pollution. Inf. News / [Read more](#)



## OIL IN THE SEA IV REPORT RECOGNIZED FOR SIGNIFICANCE BY OCEAN SCIENCE BOARD



*Photos - Above left: Photo of Ed Levine, Kelly Oskvig, and John Farrington attending the 100th meeting of the Ocean Science Board in Washington, DC. Above right: "Greatest Hits" display identifying the committee members of the Oil In the Sea IV report.*

On 19 May 2023 Ed Levine (SS&C, LLC / ISCO) was in Washington D. C. to attend the 100th meeting of the National Academies of Science, Engineering, and Medicine's (NASEM) Ocean Science Board (OSB) to acknowledge the recognition of the Oil In the Sea IV (OITS) report as one of the most significant reports of the decade, as voted by OSB members. Ed was the Vice-chair of the committee that produced the report. Also attending were committee member Dr. John Farrington (WHOI) and Kelly Oskvig (NASEM Staff). Dr. Farrington had the distinction of working on the previous three volumes as well. Each gave a short presentation on the content and significance of the report.

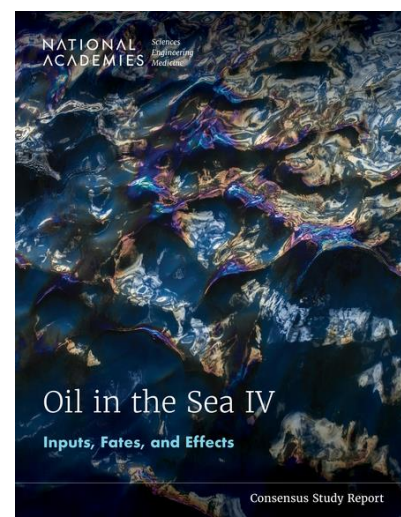
The OSB took this opportunity of the 100th meeting to survey their membership to vote on the OSB's 149 publications over the previous three decades. For the decade 2013-2022 four publications were selected by the most votes, OTIS was one of these.

It was a distinct honor to attend this session of the OSB and represent the committee for the important work they performed in writing this latest volume in the series. This edition is a significant update to the previous works with expanded breadth on covered areas and greater depth of discussion. It is the fourth in the series, documents the current state-of-knowledge on inputs, fates and effects of oil in the sea, reflecting almost 20 additional years of research, including long-term effects from spills such as the Exxon Valdez and a decade-long boom in oil spill science research following the Deepwater Horizon oil spill.

You can review and download the publication at :

<https://nap.nationalacademies.org/catalog/26410/oil-in-the-sea-iv-inputs-fates-and-effects>

[Thanks to John W. Farrington and Ed Levine]



## 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>

## TRAINING COURSES (CONTINUED)

- FRANCE - CEDRE - [https://www.cedre.fr/en/content/download/10912/file/CalendrierFormation2023\\_EN.pdf](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](https://www.ahmpnet.org/events/event_list.asp)

Members who would like to be listed here, please contact your editor – [john.mcmurtrie@spillcontrol.org](mailto:john.mcmurtrie@spillcontrol.org)

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

**COLOMBIA** -The OSRO Varichem of Colombia, corporate member of ISCO, announces new course in Latin America - Date: June 14th, 15th and 16th of June 2023.

The IMO I course aims to implement plans to manage and coordinate a first response team and the development and implementation of a contingency plan. This program provides participants the basic and strategic knowledge to develop skills required to an oil spill response.

Our courses are taught by nationally and internationally trained and certified instructors, with extensive experience in handling all types of environmental contingencies, which guarantees the quality of the programs.

Varichem de Colombia is the only one in Colombia with DIMAR certification for OMI 4.02, 4.03, 4.04; therefore, the students will receive double certification endorsed by DIMAR (General Maritime and Port Authority) and the International Nautical Institute. Cartagena Registration link:

<https://forms.office.com/r/3DpikvTG>

For more information please e-mail [sales@varichem.com](mailto:sales@varichem.com)

## 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](mailto:John.mcmurtrie@spillcontrol.org)

### MAY 2023

- FRANCE UNEP Meeting – “Second Session of the Intergovernmental Negotiating Committee on Plastic Pollution” – Paris, 29<sup>th</sup> May to 2<sup>nd</sup> June 2023
- WEBINAR From ALGA – “Treatment Technologies for PFAS destruction – How far are we from Off-the-shelf Solutions?” 30<sup>th</sup> May 2023
- WEBINAR From Halen Hardy – “SWPPP Spring Maintenance”, 31 May 2023, 10am EST

### JUNE 2023 & ONWARDS

- CANADA – 45<sup>th</sup> Technical Seminar on Environmental Contamination & Response, Edmonton, Alberta, 4-6 June, 2023
- WEBINAR – Exxon Mobil Oil Spill Response Knowledge Transfer, “Overview of Oil in the Sea IV”, Webinar 17, 6<sup>th</sup> June 2023
- AUSTRALIA – University of NSW, “Bioremediation Symposium”, 7<sup>th</sup> June 2023
- WEBINAR – From ITRC & ALGA, “Microplastics”, 13<sup>th</sup> June



## UPCOMING EVENTS (CONTINUED)

- NETHERLANDS – Chemical Watch Expo – “Emergency Response Compliance”, Amsterdam, 15-16 June 2023
- AUSTRALIA – Risk Assessment Symposium, Adelaide, 22 June 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Input of Oil to the Sea”, Webinar 18, 12<sup>th</sup> July 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Accidental Spill Mitigation”, Webinar 19, 1<sup>st</sup> August 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Oil Chemistry and Fates of Oil in the Sea”, Webinar 20, 5<sup>th</sup> September 2023
- AUSTRALIA – SPILLCON Conference & Exhibition, Brisbane, 11-15 September 2023
- USA – Elastec Fall Workshop. New Harmony. Indiana, 3-4 October 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Environmental Effects of Oil in the Sea”, Webinar 21, 3<sup>rd</sup> October, 2023
- ITALY – ECOMONDO Exhibition & Conference, Rimini, 7-12 November 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Human Health Effects of Oil in the Sea”, Webinar 22, 7<sup>th</sup> November 2023
- WEBINAR – ExxonMobil Oil Spill Response Knowledge Transfer, “Round Table Discussion to provide Summary and Recommendations”, Webinar 23, 5<sup>th</sup> December 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

Recordings of past ExxonMobil OSR Knowledge Transfer Webinar Recordings – [Access and Download](#)

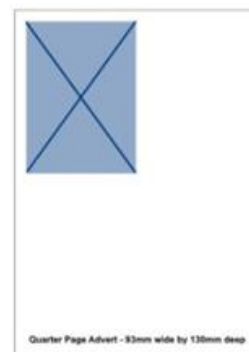
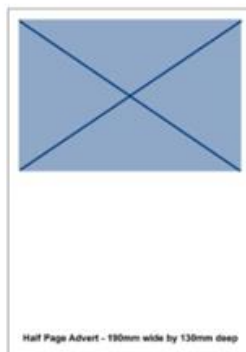
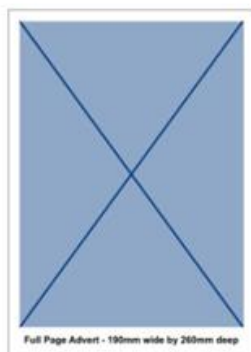
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### Why Advertise?

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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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[spillcontrol@mwadigital.com](mailto:spillcontrol@mwadigital.com)**

By advertising in the ISCO Newsletter you will be directly supporting the work of ISCO and helping to ensure the continuation of this publication. ISCO is 100% dependent on the support of the international spill response community it serves.

## MESSAGES FROM EVENT ORGANISERS

### 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/>  
<https://mailchi.mp/64c839ee8f69/spillcon-2023-delegate-bookings-open?e=ce373d43ca>

### 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. Clean Gulf Conference & Exhibition | November 7-9, 2023 | <https://ssl.linklings.net/conferences/IOSC/> Henry B. Gonzalez Convention Center | San Antonio, TX [Registration Now Open for CLEAN GULF 2023 + Sessions Announced!](#)

**Memorial Day Sale – Ends 5/31/2023** - To celebrate Memorial Day Weekend, we're offering \$100 off a full conference pass or expo-only pass to the 2023 CLEAN GULF Conference & Exhibition, November 7-9 in San Antonio, TX. Just register with VIP code: MEMORIALWEEKEND by end of day on 5/31 to get your discount! [More info & New Forums & Open Discussions](#)

### 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](#)

## 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>

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## NEW PUBLICATIONS

### NEW PUBLICATION IN LATIN AMERICAN SECTION OF THE ISCO WEBSITE

See articles in ISCO News on Page 2 and the Contributed Article on Page 7 – “Summary of Oil spill at Sea IV from the US National Academy of Sciences”

ISCO has been authorized to exclusively publish on its website the Summary in Spanish of "Oil in the Sea IV", a remarkable work that in a special way constitutes an example of method for the necessary investigation and environmental approach to our issues with the oil industry and environmental authorities in Latin America. [Thanks to Carlos Sagrera. Hon. FISCO - ISCO Representative in Latin America, Spanish Speaking.] You can find the Latin American Spanish language part of the ISCO website at <https://spillcontrol.org/latin-america-spanish-language/>

### EMSA NEWSLETTER FOR MAY 2023

In this issue: EMSA hosts joint thematic workshop on coast guard functions in support of the European Green Deal; EMSA donates pollution response equipment to Ukraine and Georgia; EMSA's RPAS Baltic regional service begins operations in Estonia, Finland and Latvia; RPAS operation for environmental monitoring launched in Lithuania; EMSA holds first Remotely Operated Vehicles familiarisation session for EU-EEA Member States; EMSA and EUNAVFOR strengthen cooperation in counter-piracy efforts; EMSA Academy delivers first edition of Basic Level Flag State Inspection Curriculum to 39 participants from EU and EEA countries; 168 PSC Officers trained in five face-to-face seminars by EMSA; Marine Equipment: 46th MARED horizontal committee meeting concludes with productive outcomes; EMSA showcases commitment to fostering next generation of maritime professionals at Futuralia.

[Download and read the new 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/>

## INCIDENT REPORTS (CONTINUED)

### ARCTIC: TOUR VESSEL GROUNDS, HULL BREACH AND OIL LEAK

May 22 - French tourists airlifted to safety after vessel grounding, Arctic Tour vessel MS ISBJORNEN 2 with 12 French tourists and 3 crew on board ran aground in Borebukta, Spitsbergen, Arctic, in the evening May 22. All 12 tourists were airlifted by helicopter to safety, vessel reportedly suffered hull breach followed by oil leak, she developed starboard list. Vessel was refloated early in the morning May 23 and as of 0450 UTC May 23, is understood to move under tow to Longyearbyen. Maritime Bulletin / [Read more](#)

### RED SEA: SHIP SUSPECTED OF 150-MILE-LONG OIL SLICK

May 24 - An approximately 150-mile-long oil slick that has been spotted in the Red Sea is believed to have been released by a merchant ship, according to satellite-monitoring environmental group SkyTruth.

The discharge was initially spotted off the coast of Sudan by Sentinel-2 satellite imagery on May 19, 2023.

SkyTruth reports that the slick measures about 250km in length and was probably discharged from a moving vessel over the course of several hours. The company said the volume of the spill equates to at least 120,000 gallons, but is likely to be much more depending on the thickness of the oil on the surface. gCaptain / [Read more](#)

## TWELVE GOOD REASONS WHY YOU SHOULD BE A MEMBER OF ISCO

Even when budgets are tight, you can fully justify the cost of ISCO membership

1. **INDUSTRY RECOGNITION** - Be recognised as a member of a worldwide community of professionals who share a common interest.
2. **EXPOSURE ON ISCO DIRECTORY** - Corporate Members enjoy FREE Listing in ISCO's International Directory of Spill Response Contractors, Equipment Suppliers, Training Providers, and Consultancy Services. All your information displayed and one click access to your website. It's a great search facility for potential customers. More info available from Mike Watson at [mike@mwadigital.com](mailto:mike@mwadigital.com)
3. **RECEIVE REQUESTS FOR EMERGENCY PROVISION** - Corporate Members receive requests for emergency provision of resources for spill response support. The Emergency Assistance facility is there for government agencies, oil companies and response organizations - not only for rapid sourcing of additional resources in large spill events, it can be used to help find specialised equipment not often available in response inventories, people with specialised experience and know-how, etc. Contractors can use the facility to supplement their own internally available resources.
4. **ISCO INITIATIVES - CONTRACTUAL ARRANGEMENTS, ETC** - Benefit from ISCO initiatives that are of practical value to Members – for example, the free and widely used RESPONSECON contracts that you can use - speeding up contractual arrangements for mobilisation of spill response resources, with positive implications for protecting your cash flow. See <https://spillcontrol.org/response-contract/>
5. **PR, PUBLICITY AND ANNOUNCING NEW PRODUCTS AND SERVICES** - Free publicity – News from ISCO Members - Announce your new products and services developments in the weekly ISCO Newsletter – reaching out to a highly targeted customer audience in over 50 countries. Corporate Members of ISCO can submit news about new products and services in the “News from ISCO Members” section of the ISCO Newsletter. It's a cost-effective way to promote your company. Disseminating news about new technical developments is of value to our community. Corporate Members are invited to contribute articles. Contact Editor, John McMurtrie at [john.mcmurtrie@spillcontrol.org](mailto:john.mcmurtrie@spillcontrol.org)
6. **EXHIBITIONS AND CONFERENCES** - Benefit from negotiated discounts in attending conferences and exhibitions – the savings can significantly offset the cost of maintaining your membership.  
  
Promoting ISCO and your company on your exhibition booth - While collecting ISCO Membership Placards at the end of the IOSC exhibition (for later re-issue at other events) a member exclaimed “Oh no, we would like to keep it and put it on our booth at other shows”. Displaying the ISCO Membership Placard on your booth indicates your support of an organization dedicated to improving worldwide co-operation and preparedness.
7. **ENHANCE RESPONSE KNOWLEDGE OF YOUR STAFF** - To enhance response knowledge of your staff - Freely downloadable technical articles, response guidelines and loads of other useful reference information available in the Members' Area of the ISCO website.
8. **CURATED NEWS IN THE ISCO NEWSLETTER** - The ISCO Newsletter keeps you up-to-date on events, developing technologies, new legislation and other matters of mutual interest. This will save many hours a week of scanning, browsing and searching for all the news that matters and puts it in your inbox every week.
9. **OPPORTUNITY FOR LOBBYING FOR LEGISLATIVE CHANGE** - Through ISCO, Members have a voice in the drafting of new legislation that will affect their areas of interest. We introduce new initiatives at IMO and give our support to other delegates advancing developments that will be of benefit for improvement of response effectiveness.  
  
ISCO provides an interface with National and International Government Agencies, Industry, the Scientific Community, R&D Establishments and Academia, actively supporting new developments that will be of benefit to our Members.
10. **USE OF ISCO LOGO IN PROMOTIONAL MATERIAL** - Members have the right to display the ISCO logo on their headed notepaper, brochures, business cards, etc. to denote that they are part of an international organisation dedicated to improving worldwide co-operation and preparedness.
11. **CORPORATE MEMBERS** can place low cost advertisements in the ISCO Newsletter reaching out every week to over 3,000 potential customers in over 60 countries. Newsletter readers represent a highly targeted audience for promoting sales of response equipment, materials, consultancy services and training courses. For details, please contact Mike Watson at [mike@mwadigital.com](mailto:mike@mwadigital.com)
12. **STUDENTS, APPRENTICES AND TRAINEES** can have free student membership for the duration of their studies and upon completion of their period of free membership are encouraged to become Individual Members of ISCO. Student Members are linked into an international network of students and can get help from other ISCO members who have expertise that can assist them in their studies. For more information, contact Student Group Leader, Peter Balogun Kayode at [balogunkayodepeter@yahoo.com](mailto:balogunkayodepeter@yahoo.com)

For more information visit [www.spillcontrol.org](http://www.spillcontrol.org)

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