

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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INTERNATIONAL NEWS

PLEASE CLICK ON THE BANNER BELOW FOR MORE INFORMATION



UN URGES EUROPE TO BOOST ENVIRONMENTAL AMBITION TO FIGHT PLANETARY CRISIS

October 5 - Despite progress in certain areas, governments in the pan-European region must show far greater ambition in tackling climate change, protecting ecosystems and managing and tackling waste and pollution, stresses a new UN assessment presented to European ministers today.

The 7th pan-European environmental assessment, was today presented at the 9th Environment for Europe Ministerial Conference, the United Nations' highest body on environmental policy in the region – covering 54 countries across the European Union, European Free Trade Association members, the Balkans, the Caucasus, Eastern Europe and Central Asia.

The joint report by the United Nations Economic Commission for Europe (UNECE) and the United Nations Environment Programme (UNEP) calls for greater action to tackle the triple planetary crisis affecting climate, nature and pollution, whose effects are taking their toll more than ever on the lives and wellbeing of people in the pan-European region.

“The findings of this assessment almost halfway through [Agenda 2030](#), must be a wake-up call for the region,” said UNECE Executive Secretary Olga Algayerova. “The historic drought the region faced this summer announced what we should expect in years to come and shows that there is no more time to lose. As highlighted in the report, the UN has developed multiple tools and approaches to cut pollution, step-up environmental protection, reduce resource use and foster the shift to a circular economy.

Their implementation must be significantly accelerated. This will require urgent and bold political commitment and behavioural changes from all of us before it is too late”.

The summary for policymakers and the full report is available under embargo [here](#) and at [Europe's Environment the Seventh Pan-European Environmental Assessment | UNECE](#)

A factsheet with more report findings to accompany this press release can be downloaded [here](#). UNEP / [Read more](#)

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For information contact
Mike Watson at
spillcontrol@mwadigital.com

ISCO NEWS

LORD RICKABY STEPS DOWN FROM THE ISCO EXECUTIVE COMMITTEE

Lord Rickaby, known to his many friends as Simon, was for many years the managing director of ISCO Corporate Member, Braemar Howells, first listed in the roll of ISCO members in 2007 as D. V. Howells Ltd.

Thanks to his strong leadership and talent for innovation, Simon transformed a relatively small company into a world-leading pollution response contractor that had a major role in the response to many major incidents, not only in response to oil spills but also in countering pollution resulting from HNS and cargo losses. Events that come to mind include the container vessel MSC Napoli's 2007 beaching in the south of England and New Zealand's worst pollution event, the wreck of the Rena in 2011. No doubt there are many others.

Simon has always been a strong supporter of ISCO and was awarded Hon.FISCO for his valuable contributions to the development of the organisation.

He had a leading part in the development of ISCO's Professional Membership – a class of membership that for the first time gave recognition to individuals in a profession that traditionally had not required high academic attainment but rather experience and skills gained through their long term work experience rather than only from a class room. This is for spill response professionals who have not had the opportunity to show their skills and professionalism in a comparable light to lawyers, accountants and engineers. The development also created a career path for students, apprentices and trainees who could join ISCO as student members and over time progress to higher levels of Professional Membership.

Simon also made a major contribution to the joint ISCO-BIMCO Working Group that, with the participation of representatives of IG P&I Clubs, ISU, ITOPF and SCAA, developed the Response Contracts. The universal availability of RESPONSECON represents a major advance in ensuring rapid and effective response to oil spills at sea and on land. The need for extended negotiations is eliminated. Thus, the time required for mobilization of response resources to mitigate environmental damage is very significantly reduced.

These standard spill response agreements (available for both international and US jurisdictions) have wide application, including use for equipment and personnel or equipment-only scenarios. The contract defines general terms between response contractors and any requesting parties. Requesting parties are deliberately not confined to ship owners, but comprise government agencies, vessel owners, oil companies, pipeline operators, railway companies, port authorities, terminal managers and others with responsibility for quickly initiating response operations. ISCO introduced the new contacts at IMO and they are now widely used by contractors and requesting parties.

ISCO expresses its gratitude to Simon for the much valued support he has given over many years and wishes him all the very best with his other ongoing activities.

REMOVAL OF LAPSED MEMBERS FROM THE ROLL OF ISCO MEMBERS

As announced last week this process will start on 18th October 2022. The ISCO Secretariat thanks Members who have taken action to safeguard their membership status and their continued access to membership benefits

If you are unsure about your current membership status please contact our VP (Membership), Mary Ann Dalglish at mrydetroit@aol.com for help and advice.

LONDON - POSTPONEMENT OF WORKSHOP ON THE 2010 HNS CONVENTION

September 21 - The workshop on the 2010 HNS Convention, which was scheduled to take place on Monday, 31 October and Tuesday, 1 November, at the Headquarters of the International Maritime Organization (IMO) in London, has been postponed.

This event, which is being organised by the esteemed delegation of Canada in cooperation with the IOPC Funds and IMO, has been rescheduled to take place on 3 and 4 April 2023, directly following the meeting of the 110th session of the IMO Legal Committee (26 to 31 March 2023). The workshop will be conducted in person and in hybrid format.

<https://www.hnsconvention.org/activity/workshop-on-the-2010-hns-convention-to-be-held-on-31-october-and-1-november-2022/>

NEW OFFICES FOR MEDITERRANEAN SEA'S REMPEC CENTRE

October 5 - The Regional Marine Pollution Emergency Response Centre Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC) has moved. The new premises in Floriana, Malta were inaugurated by Mr. Robert Abela, Prime Minister of Malta (3 October) and IMO Secretary-General Kitack Lim. IMO / [Read more](#)

DUMPING OF SEWAGE SLUDGE AT SEA TO BE PROHIBITED WORLDWIDE

October 10 - Amendment to treaty on dumping of waste at sea will remove sewage sludge from list of wastes which may be given dumping permit.

The amendment to the London Protocol will remove sewage sludge from the list of permissible wastes - wastes which may be considered for dumping at sea. Parties to the treaties which regulate the dumping of wastes at sea have adopted an amendment to ensure that the dumping of sewage sludge at sea would be prohibited worldwide. The amendment to the London Protocol will remove sewage sludge from the list of permissible wastes - wastes which may be considered for dumping at sea. IMO / [Read more](#)

EUROPEAN MARITIME LAW COURSE ORGANISED BY EMSA

October 12 - As part of the online European Maritime Law Course developed within the framework of the European Maritime Safety Agency (EMSA) Academy, the IOPC Funds delivered two online presentations on 11 and 12 October 2022.

The EMSA Academy law-course runs annually from May to October and is divided into two main sections: "safety and security" and "sustainability". It is aimed at assisting European institutions in understanding the scope and objective of the European maritime legislation in place, subject to implementation or application in the national systems of each State. IOPC Funds / [Read more](#)

NORTH-EAST ATLANTIC ENVIRONMENT STRATEGY 2030

October - The full NEAES text can be found in [OSPAR Agreement 2021-01](#)

The [North-East Atlantic Environment Strategy \(NEAES\) 2030](#) was adopted on 1 October 2021 in Cascais, Portugal. This was supported by a high-level review of OSPAR's previous strategy for the decade 2010-2030.

Contracting Parties developed an [implementation plan](#) to support work to put the Strategy into effect. The plan is a living document, setting out specific actions and tasks to achieve the NEAES objectives and will be used by OSPAR to record and assess progress with implementation of the Strategy.

[Briefing note on the NEAES 2030](#)

[Briefing note on high-level review of NEAES 2010-2020](#)

Please click on the images below for our NEAES 2030 and the evaluation of our NEAES 2010-2020



AUSTRALIA & NEW ZEALAND: NATIONAL ENVIRONMENTAL MANAGEMENT PLAN ON PFAS

The Heads of EPAs of Australia and New Zealand (HEPA) have released the draft per- and poly-fluoroalkyl substances National Environmental Management Plan (PFAS NEMP) version 3.0 for public consultation. This version 3.0 contains important new guidance and standards, which builds on version 2.0 published in 2020.

You can now have your say on this plan. **Have Your Say** -

We appreciate you taking the time to help us ensure that the per- and poly-fluoroalkyl substances (PFAS) National Environmental Management Plan version 3.0 is fit for purpose. We want to make sure it meets the needs of the Australian and New Zealand environment, and communities, by continuing to provide useful, nationally consistent guidance and standards on PFAS contamination. Please note that feedback is sought on areas of text that are new and highlighted, and not the existing text from NEMP 2.0.

- read the [draft plan](#)
- submit your feedback in the survey.

Submit your feedback by **4pm AEDT 20 December 2022**

Australian Government / [Read more](#)

BAHREIN: THE TWELFTH OIL SPILL RESPONSE OFFICERS VIRTUAL MEETING

4th October 2022, MEMAC HQ – Kingdom of Bahrain MEMAC / [Download the Agenda](#)

CANADA: OCTOBER 2022 MEETING OF THE INTERNATIONAL OIL POLLUTION COMPENSATION FUNDS' (IOPC FUNDS) GOVERNING BODIES

Anne Legars, Administrator will be participating in the Canadian delegation to the IOPC Funds' governing bodies. The event is set to take place in person in London, United Kingdom during the week of 24 October 2022. Ship Source Oil Pollution Fund / [Read more](#)

CROATIA: EXERCISE "ECO SEA 2022"



Photo courtesy of ATRAC

October 12 - On the day of October 7th 2022, ATRAC was invited to participate in an exercise "EKO SEA 2022" that was organised by the County Operational Center (COC) of Primorje-Gorski kotar county. The exercise was held in the Bay of Bakar, and the sanitation of polluted coastline was demonstrated in Bakarac. The participants of this exercise were members of Primorje-Gorski kotar COC, Civil protection and the members of company Dezinsekcija d.o.o.

This exercise simulated the release of 10 cubic meters of heavy fuel oil into the sea. On sea, the pollution was contained within booms that were being pulled by ships in a "U" formation. The contained oil was collected by oil spill response vessels that had a bow that opens up to reveal built-in skimmers. The oil that ended up on the shoreline was contained within booms and some of it was collected with absorbents, while skimmers were pumping the oil into storage tanks placed on shore. The pollution on a rocky shoreline was removed with high pressure water pumps. ATRAC / [Read more](#)

EGYPT: COP 27 - COMPREHENSIVE INITIATIVES FOR DEVELOPING COUNTRIES' PRIORITIES, ESPECIALLY AFRICA

September 16 - During her participation in AMCEN 18th Session in Dakar, Egypt's Environment Minister and Ministerial Coordinator and Envoy for COP 27 Invites African Environment Ministers to Working Breakfast Egypt's Environment Minister: Voice of Africa's Initiatives Echoes from Egypt at Cop27 She affirms: We seek to unify African visions Dr. Yasmine Fouad: We Pin Our Hopes on Egypt's Presidency of COP27 to Discuss Comprehensive Initiatives for Developing Countries' Priorities, Especially Africa. EEAA / [Read more](#)

FRANCE: CEDRE'S ACTIVITY REPORT FOR SEPTEMBER 2022

Cedre's emergency response team received many requests and enquiries in September, both from France and from abroad, relating to various alerts (by the Finistère fire brigade SDIS 29 in Brest's roadstead, MRCC Corsica and Lagarde) and for confirmed small-scale spills, by MRCC Jobourg in connection with sheen observed on the Bay of Seine, by the Métropole Toulon Provence Méditerranée

(Var) for a leak of used engine oil that affected a beach in Carquéranne, and by MRCC Corsica for a spill in the bay of Calvi (unknown product from a semi-submerged catamaran that caused sheen across a 2 km-stretch).

As concerns inland waters, the duty team received an enquiry from the Seine-et-Marne fire brigade SDIS 77 relating to the fluorescent green colour of a small stream in Roissy-en-Brie. The source of this contamination, resembling fluorescein, had not been identified and the nature of the product is pending confirmation through analyses.

MAR-ICE was activated following a request to model the behaviour and drift of a spill in Malta.

A response contractor requested advice as well as drift and behaviour modelling in relation to a spill of diesel and hydraulic oil after a crane fell into 25 m-deep waters, at the water intake of a desalination plant in Chile.

The Hérault authorities (DDTM 34) requested advice on the behaviour of kerosene after a Boeing 737 (freighter) left the runway at Montpellier airport and stopped partly in Mauguio saltwater lake with 5 tonnes of kerosene onboard. Ultimately, only a very small quantity of fuel was spilled.

The grounding of the bulk carrier MV OS 35, after colliding with an LNG tanker as the bulk carrier was exiting the Bay of Gibraltar, was closely monitored by our duty team in order to be able to offer or respond to a possible request for assistance. Indeed, an oil leak soon occurred when a breach appeared in the hull (215 tonnes of LSFO and 250 tonnes of diesel and lubricants on board). Despite the operations implemented – booms laid around the vessel, use of skimmers, bunker fuel removal – strandings of oil on the coast were reported.

Read more in the September issue of the CEDRE Newsletter http://www.cedre.fr/en/content/download/10886/file/315_E.pdf

ITALY: ECOMONDO - UPCOMING EU CALLS FOR PROPOSALS

Do you want to learn more about upcoming EU calls for proposals? Have you a specific question about EU funding programmes? You will find all the information at Ecomondo!

Project managers from the European Climate, Infrastructure and Environment Executive Agency (CINEA), the European Innovation Council and SMEs Executive Agency (EISMEA) and the European Research Executive Agency (REA) on behalf of the European Commission, will be available **on-site and/or remotely** to answer your questions about funding opportunities and the application process. <https://ecomondo-2022.b2match.io/>

MALTA: REMPEC'S OPENING A NEW CHAPTER IN THE CENTER'S ACTIVITIES IN NEW PREMISES

October 5 - REMPEC is critical for the Mediterranean, with its mandate of preventing marine pollution in all its forms and facilitating the response when incidents occur. On October 3rd 2022, the opening ceremony was thus a good opportunity to highlight this new chapter in REMPEC's history at the new premises in Floriana at Sa Maison. REMPEC / [Read more](#)

NIGERIA: NNPC FINDS UNDERWATER OIL-THEFT PIPELINE RUNNING OUT INTO THE SEA

October 7 - The top official at Nigerian state oil company NNPC claims that his team has discovered a four-kilometer-long illegal pipeline leading from Shell's Forcados export terminal out into the sea. Shell Petroleum Development Company (SPDC), the operator of the Forcados terminal, confirmed Thursday that an illegal seaward pipeline does exist in the region - but says that it is located far away and has no connection with SPDC operations.

"SPDC appreciates the additional surveillance conducted on behalf of NNPC to deal with illegal activities," a company spokesperson told the Premium Times. "However, the recently discovered theft pipeline is approximately 30 kilometers away from SPDC's Forcados terminal. It is not within SPDC's pipeline Right of Way." The Maritime Executive / [Read more](#)

SINGAPORE: MPA LEADS EXERCISE TO SHOWCASE QUICK RESPONSE TO TACKLING OIL SPILLS

October 7 - A plane was activated as part of moves to contain a simulated "oil spill" near the Raffles Reserved Anchorage on Friday. The incident involving a tanker and a bulk carrier saw more than 100 personnel testing their capabilities in a multi-agency Joint Oil Spill Exercise (Jose).

The newest patrol craft of the Maritime and Port Authority of Singapore - MPA Guardian - directed and coordinated the efforts, including using an aircraft to spray oil dispersant and oil containment booms.

The Civil Aviation Authority of Singapore, Singapore Civil Defence Force and the Singapore Police Force, together with oil major Shell and organisation Oil Spill Response also took part in the exercise. The Straits Times / [Read more](#)

SOUTH AFRICA: GREENVOYAGE2050 LAUNCHES PILOT PROJECT WORK IN SOUTH AFRICA

October 12 - A national stakeholders roundtable was held in Durban, South Africa this week to initiate work on potential pilot projects to demonstrate low and zero-carbon solutions for maritime shipping. The roundtable was jointly organised by the IMO-Norway GreenVoyage2050 project, the Department of Transport of South Africa (DoT) and the South African Maritime Safety Authority (SAMSA) and brought together more than 50 stakeholders from across the maritime sector.

The event is taking place at the margins of the World Maritime Day Parallel Event, hosted by the Government of South Africa, in Durban from 12 to 14 October, with the theme "New Technologies for Greener Shipping". IMO / [Read more](#)

SOUTH AFRICA: WORLD MARITIME DAY PARALLEL EVENT OPENS IN SOUTH AFRICA



IMO Secretary-General Kitack Lim is greeted by the Honourable Fikile Mbalula, Transport Minister, South Africa. Photo courtesy of IMO

October 13 - The [World Maritime Day Parallel Event \(WMDPE\)](#) has opened in Durban, South Africa (12 to 14 October 2022). ([Photos here.](#))

In his opening speech, IMO Secretary-General Kitack Lim said:

"After a two-year pause in parallel events due to the pandemic, it is an enormous pleasure to be able to welcome you all here to Durban for the 2022 World Maritime Day Parallel Event. The Parallel Event was instituted to provide an opportunity to take the World Maritime theme "on the road" and it is undoubtedly one of the most important maritime events, worldwide." ([full speech here](#)) IMO / [Read more](#)

UK: UK NATIONAL CONTINGENCY PLAN: EXERCISE PHOENIX REPORT

October 7 - Exercise Phoenix was a multi-agency exercise involving government departments, local authorities, the oil and gas industry and contractor organisations, and took place in June 2022 to test the United Kingdom's (UK) response to a major oil and gas industry incident within the UK Exclusive Economic Zone (EEZ). MCA / [Download the Report](#)

PEOPLE IN THE NEWS

USA: JUSTIN MILLER NAMED REGIONAL DIRECTOR FOR BSEE ALASKA REGION



October 6 - The Bureau of Safety and Environmental Enforcement (BSEE) today announced the selection of Justin Miller to serve as the new regional director of BSEE's Alaska Region.

"Justin brings experience, a wealth of knowledge in oil and gas operations at both the state and federal levels, and a proven track record to this vital leadership role," said BSEE Director Kevin Sligh. "His many years of experience in several bureaus across the Department provide the leadership to guide the Alaska Region's daily efforts and operations to ensure safe and environmentally responsible offshore energy activities." As the Alaska Regional Director, Miller will oversee more than one billion acres on the Outer Continental Shelf and more than 6,000 miles of coastline -- more coastline than in the rest of the United States combined. BSEE / [Read more](#)

PEOPLE IN THE NEWS (CONTINUED)

USA: PAUL HUANG JOINS BSEE AS DEPUTY DIRECTOR

October 11 - The Bureau of Safety and Environmental Enforcement (BSEE) today announced that Paul Huang joined the Bureau as the new Deputy Director. Paul will support BSEE's efforts to promote safety, protect the environment, and conserve offshore resources through vigorous regulatory oversight and enforcement.

"BSEE plays a critical role in regulating offshore energy production and assisting the Department in tackling the climate crisis through the advancement of renewable energy," said Director Kevin Sligh. "Paul's commitment to public service and his years of experience at the Federal Emergency Management Agency will be invaluable for BSEE as we expand to cover renewable energy production on the Outer Continental Shelf. Paul will be a tremendous asset for BSEE and our continued mission of safe and environmentally sustainable energy production." BSEE / [Read more](#)



OBITUARY

INTERTANKO: TORMOD RAFGÅRD – 1937-2022



October 14 - With great sadness we received the news that Tormod Rafgård passed away on 6 October, aged 85. Rafgård was INTERTANKO's very first Managing Director

Tormod Rafgård Largely inspired by Norwegian shipowner Jørgen Jahre, the International Association of Independent Tanker Owners (INTERTANKO) opened in Oslo in 1970, with Rafgård installed as head of the new association's secretariat. A Norwegian lawyer, Rafgård had been a civil servant in his early career, before joining the Norwegian Shipowners' Association in Oslo and later INTERTANKO. He steadily built up INTERTANKO, placing emphasis on dealing with the issues facing the independent tanker owners and making it an influential and much-respected body in international circles.

Rafgård retired from INTERTANKO after 25 years' service but continued to be active, both as a solicitor and then as an appeals court judge. After his ultimate retirement from the latter posts, he wrote the book Tankers, Big Oil and Pollution Liability, published in 2011.

The Association owes him a debt of gratitude for laying many of the strong foundations INTERTANKO still builds on today and our thoughts are with his family and friends at this time. For details of funeral arrangements please contact Donna Tang de Leon Intertanko / <https://www.intertanko.com>

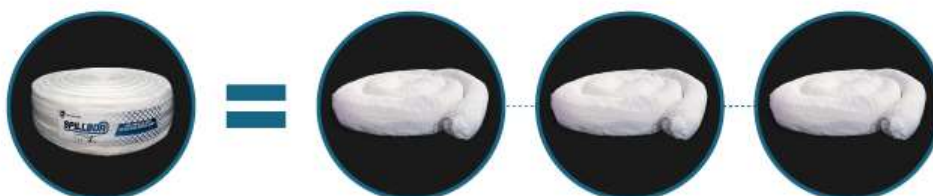
NEWS FROM ISCO MEMBERS

Corporate Members of ISCO can submit 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

HALENHARDY INTRODUCES ULTRA-COMPACT OIL CONTAINMENT BOOM



1 - 5" x 25' SpillBoa®

3 - 5" x 10' Traditional Booms

NEWS FROM ISCO MEMBERS (CONTINUED)

Traditional booms take up a lot of storage space. And because they are bulky and get tangled, they can be hard for one person to deploy. That's a big reason why many organizations buy 10' traditional booms instead of 25' booms: because the 25' booms are too hard to handle!

One 25-foot SpillBoa® Boom takes up less space than a 10-foot traditional boom. Plus, a 25-foot SpillBoa® Boom weighs just 5 pounds and can be deployed by one person in less than ten seconds – no detangling necessary. 25' SpillBoa® Booms mean fewer connections when you're trying to contain a large spill. Fewer connections mean faster deployment. HalenHardy / [Read more](#)

SCIENCE & TECHNOLOGY

If you are interested in new technology you might find it useful to visit Technology Innovation News Survey at <https://clu-in.org/products/tins/> and Tech Direct at <https://clu-in.org/techdirect/archive/>

THE WORLD'S NEWEST SUPERTANKER USES SAILS TO HELP TRANSPORT CRUDE OIL



Photo courtesy of China Classification Society

October 3 - As heavy industries take action to reduce their carbon footprint, many companies are exploring innovative methods to continue operations as normally as possible while reducing their reliance on fossil fuels. But I never thought that sails could be making a return to commercial shipping. It seems even more ridiculous that sails would be used to transport crude oil across oceans. However, the newest Chinese diesel supertanker is aiming to destroy the established conventions to bring wind-powered sailing back into vogue.

The MV New Aden, built by the Dalian Shipbuilding Industry Company, was recently delivered to China Merchants Energy Shipping. The new 1092-foot-long supertanker capable of carrying two million barrels of oil sports a strikingly unique feature, four carbon fiber wingsails. Each wingsail is 131 feet tall, giving the tanker a total sail area of 12,900 square feet. The sails will be operated by an automated system called Aerofoil Sails Intelligent Control. The system reacts to real-time data, such as wind speed and ship heading, to optimize the angle of the sails. Jalopnik / [Read more](#) [Thanks to Marc Shaye, Hon.FISCO]

WAX WORM SALIVA RAPIDLY BREAKS DOWN PLASTIC BAGS

October 5 - Its enzymes degrade polyethylene within hours at room temperature and could 'revolutionise' recycling

Enzymes that rapidly break down plastic bags have been discovered in the saliva of wax worms, which are moth larvae that infest beehives. The enzymes are the first reported to break down polyethylene within hours at room temperature and could lead to cost-effective ways of recycling the plastic.

The discovery came after one scientist, an amateur beekeeper, cleaned out an infested hive and found the larvae started eating holes in a plastic refuse bag. The researchers said the study showed insect saliva may be “a depository of degrading enzymes which could revolutionise [the cleanup of polluting waste]”.

Polyethylene makes up 30% of all plastic production and is used in bags and other packaging that make up a significant part of worldwide plastic pollution. The only recycling at scale today uses mechanical processes and creates lower-value products.

Chemical breakdown could create valuable chemicals or, with some further processing, new plastic, thereby avoiding the need for new virgin plastic made from oil. The enzymes can be easily synthesised and overcome a bottleneck in plastic degradation, the researchers said, which is the initial breaking of the polymer chains. That usually requires a lot of heating, but the enzymes work at normal temperatures, in water and at neutral pH. The Guardian / [Read more](#) [Thanks to Dan Sheehan, Hon.FISCO]

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.

175. A critical review of oil spills in the Niger Delta aquatic environment: causes, impacts, and bioremediation assessment

Ikhumetse AA · Abioye OP · Ijah UJJ · Bankole MT
(2022) Environmental monitoring and assessment, 194 (11), p. 816.
DOI: 10.1007/s10661-022-10424-x

ABSTRACT: The Niger Delta region in South-South Nigeria, on Africa's West Coast, is densely populated. The region, which contains a substantial stock of crude oil and natural gas, has been nicknamed "the engine room" for Nigeria's economic development and progress. It is responsible for up to 90% of the country's economic growth (or gross domestic product/GDP). The region has multiple ecosystems, such as the aquatic environment, that are critical to the survival of the area's various habitats and living species. However, the same region has witnessed unjustifiable environmental pollution arising from oil activities over the years of exploration and production which has orchestrated negative consequences on the Niger Delta ecosystem. This has led to extended negative consequences on natural resources, which also have detrimental repercussions psychologically, ecologically, socially, economically, and physically which, in turn, impacts the overall health of the affected individuals. This write-up provides an overview of the major drivers of the oil leakage in Nigeria's Niger Delta ecosystem as well as the major impacts on the environment. It will also analyze numerous means of remediation in use and extend such for a more inclusive and productive option. Moreover, this review offers key measures that may help to maintain long-term policies for reducing adverse implications and increasing the living standard for the Niger Delta area's affected communities.

176. Coral recruits are highly sensitive to heavy fuel oil exposure both in the presence and absence of UV light

Nordborg, F.M., Brinkman, D.L., Negri, A.P.
(2022) Environmental Pollution, 309, art. no. 119799,
DOI: 10.1016/j.envpol.2022.119799

ABSTRACT: Oil pollution remains a prominent local hazard to coral reefs, but the sensitivity of some coral life stages to oil exposure remains unstudied. Exposure to ultraviolet radiation (UVR), ubiquitous on coral reefs, may significantly increase oil toxicity towards these critical habitat-forming taxa. Here we present the first data on the sensitivity of two distinct post-settlement life stages of the model coral species *Acropora millepora* to a heavy fuel oil (HFO) water accommodated fraction (WAF) in the absence and presence of UVR. Assessment of lethal and sublethal endpoints indicates that both 1-week-old and 2-month-old recruits (1-wo and 2-mo) were negatively affected by chronic exposures to HFO (7 and 14 days, respectively). Relative growth (1-wo and 2-mo recruits) and survival (1-wo recruits) at end of exposure were the most sensitive endpoints in the absence of UVR, with no effect concentrations (NEC) of 34.3, 5.7 and 29.3 µg L⁻¹ total aromatic hydrocarbons (TAH; Σ39 monocyclic- and polycyclic aromatic hydrocarbons), respectively. On average, UVR increased the negative effects by 10% for affected endpoints, and latent effects of exposure were evident for relative growth and symbiont uptake of recruits. Other sublethal endpoints, including maximum quantum yield and tissue colour score, were unaffected by chronic HFO exposure. A comparison of putative species-specific sensitivity constants for these ecologically relevant endpoints, indicates *A. millepora* recruits may be as sensitive as the most sensitive species currently included in oil toxicity databases. While the low intensity UVR only significantly increased the negative effects of the oil for one endpoint, the majority of endpoints showed trends towards increased toxicity in the presence of UVR. Therefore, the data presented here further support the standard

incorporation of UVR in oil toxicity testing for tropical corals. © 2022 The Author(s)

DOCUMENT TYPE: Article

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OPEN ACCESS: All Open Access, Hybrid Gold

SOURCE: Scopus

177. Nature-Based Solutions for Restoring an Agricultural Area Contaminated by an Oil Spill

Franchi, E., Cardaci, A., Pietrini, I., Fusini, D., Conte, A., De Folly D'Auris, A., Grifoni, M., Pedron, F., Barbafieri, M., Petruzzelli, G., Vocciante, M.

(2022) *Plants*, 11 (17), art. no. 2250,

DOI: 10.3390/plants11172250

ABSTRACT: A feasibility study is presented for a bioremediation intervention to restore agricultural activity in a field hit by a diesel oil spill from an oil pipeline. The analysis of the real contaminated soil was conducted following two approaches. The first concerned the assessment of the biodegradative capacity of the indigenous microbial community through laboratory-scale experimentation with different treatments (natural attenuation, landfarming, landfarming + bioaugmentation). The second consisted of testing the effectiveness of phytoremediation with three plant species: *Zea mays* (corn), *Lupinus albus* (lupine) and *Medicago sativa* (alfalfa). With the first approach, after 180 days, the different treatments led to biodegradation percentages between 83 and 96% for linear hydrocarbons and between 76 and 83% for branched ones. In case of contamination by petroleum products, the main action of plants is to favor the degradation of hydrocarbons in the soil by stimulating microbial activity thanks to root exudates. The results obtained in this experiment confirm that the presence of plants favors a decrease in the hydrocarbon content, resulting in an improved degradation of up to 18% compared with non-vegetated soils. The addition of plant growth-promoting bacteria (PGPB) isolated from the contaminated soil also promoted the growth of the tested plants. In particular, an increase in biomass of over 50% was found for lupine. Finally, the metagenomic analysis of the contaminated soil allowed for evaluating the evolution of the composition of the microbial communities during the experimentation, with a focus on hydrocarbon-oxidizing bacteria.

178. Transcriptomic and Histological Analysis of the Greentail Prawn (*Metapenaeus bennettiae*) Following Light Crude Oil Exposure

Armstrong, E.K., Mondon, J., Miller, A.D., Revill, A.T., Stephenson, S.A., Tan, M.H., Greenfield, P., Tromp, J.J., Corbett, P., Hook, S.E.

(2022) *Environmental Toxicology and Chemistry*, 41 (9), pp. 2162-2180.

DOI: 10.1002/etc.5413

ABSTRACT: Oil spills pose a significant threat to marine biodiversity. Crude oil can partition into sediments where it may be persistent, placing benthic species such as decapods at particular risk of exposure. Transcriptomic and histological tools are often used to investigate the effects of hydrocarbon exposure on marine organisms following oil spill events, allowing for the identification of metabolic pathways impacted by oil exposure. However, there is limited information available for decapod crustaceans, many of which carry significant economic value. In the present study, we assess the sublethal impacts of crude oil exposure in the commercially important Australian greentail prawn (*Metapenaeus bennettiae*) using transcriptomic and histological analyses. Prawns exposed to light, unweathered crude oil "spiked" sediments for 90 h were transferred to clean sediments for a further 72 h to assess recovery. Chemical analyses indicated that polycyclic aromatic hydrocarbons increased by approximately 65% and 91% in prawn muscle following 24 and 90 h of exposure, respectively, and significantly decreased during 24- and 72-h recovery periods. Transcriptomic responses followed an exposure and recovery pattern with innate immunity and nutrient metabolism transcripts significantly lowered in abundance after 24 h of exposure and were higher in abundance after 72 h of recovery. In addition, transcription/translation, cellular responses, and DNA repair pathways were significantly impacted after 24 h of exposure and recovered after 72 h of recovery. However, histological alterations such as tubule atrophy indicated an increase in severity after 24 and 72 h of recovery. The present study provides new insights into the sublethal impacts of crude oil exposure in greentail prawns and identifies molecular pathways altered by exposure. We expect these findings to inform future management associated with oil extraction activity and spills. *Environ Toxicol Chem* 2022;41:2162–2180.

179. Fates of petroleum during the deepwater horizon oil spill: A chemistry perspective

Overton, E.B., Adhikari, P.L., Radović, J.R., Passow, U.

(2022) *Frontiers in Marine Science*, 9, art. no. 928576,

DOI: 10.3389/fmars.2022.928576

ABSTRACT: We describe the initial bulk and compound specific composition of the liquid oil spilled during the Deepwater Horizon (DwH) disaster. The emphasis is on the target hydrocarbon compounds typically found in highest concentrations and on those of concern from a toxicological perspective (i.e., the target normal alkanes and isoprenoids, and PAHs on U.S. Environmental Protection Agency's (EPA) priority list with their alkyl homolog compounds), and/or those relevant for forensic fingerprinting of spill residues (i.e., sulfur containing PAHs and biomarker compounds). Weathering changed the oil's composition in various environmental compartments. These compositional changes and potential environmental impacts of the remaining weathered residues are presented in this paper. Biodegradation occurred in both surface and subsurface environments while photooxidation primarily modified and removed hydrocarbons in floating oil slicks. The volatile, soluble and highly labile C1 to C10 hydrocarbons were rapidly

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

degraded in the water column and/or emitted to the atmosphere (evaporation). The semi-volatile hydrocarbons (labile C10 to C25) that remained in the water column and floating oil on the water's surface were lost from oil residues during weathering. The heavy nonvolatile and insoluble hydrocarbons (recalcitrant C25+) were least affected by initial weathering processes in 2010. The composition of the residual oil fraction in surface floating oil was further altered by the addition of oil soluble oxy hydrocarbons produced from photooxidation. During 2011 and 2012 the resulting highly insoluble recalcitrant C25+ oily residues remained on the shorelines, bottom sediments, or bound to suspended particulates in the water column, with detectable residues mostly returning to near pre-spill levels by 2015 to 2020. Some recalcitrant oil residues can still be found at various locations, including some coastal environments (e.g., marshes), or deep-water sediments, at very low levels, ten years after the spill.

180. Transcriptome profiling of blood from common bottlenose dolphins (*Tursiops truncatus*) in the northern Gulf of Mexico to enhance health assessment capabilities

Morey, J.S., Balmer, B.C., Zolman, E.S., Takeshita, R., De Guise, S., Rowles, T.K., Smith, C.R., Wells, R.S., Schwacke, L.H. (2022) PLoS ONE, 17 (8 August), art. no. e0272345, DOI: 10.1371/journal.pone.0272345

ABSTRACT: Following the 2010 Deepwater Horizon disaster and subsequent unusual mortality event, adverse health impacts have been reported in bottlenose dolphins in Barataria Bay, LA including impaired stress response and reproductive, pulmonary, cardiac, and immune function. These conditions were primarily diagnosed through hands-on veterinary examinations and analysis of standard diagnostic panels. In human and veterinary medicine, gene expression profiling has been used to identify molecular mechanisms underlying toxic responses and disease states. Identification of molecular markers of exposure or disease may enable earlier detection of health effects or allow for health evaluation when the use of specialized methodologies is not feasible. To date this powerful tool has not been applied to augment the veterinary data collected concurrently during dolphin health assessments. This study examined transcriptomic profiles of blood from 76 dolphins sampled in health assessments during 2013-2018 in the waters near Barataria Bay, LA and Sarasota Bay, FL. Gene expression was analyzed in conjunction with the substantial suite of health data collected using principal component analysis, differential expression testing, over-representation analysis, and weighted gene co-expression network analysis. Broadly, transcript profiles of Barataria Bay dolphins indicated a shift in immune response, cytoskeletal alterations, and mitochondrial dysfunction, most pronounced in dolphins likely exposed to Deepwater Horizon oiling. While gene expression profiles in Barataria Bay dolphins were altered compared to Sarasota Bay for all years, profiles from 2013 exhibited the greatest alteration in gene expression. Differentially expressed transcripts included genes involved in immunity, inflammation, reproductive failure, and lung or cardiac dysfunction, all of which have been documented in dolphins from Barataria Bay following the Deepwater Horizon oil spill. The genes and pathways identified in this study may, with additional research and validation, prove useful as molecular markers of exposure or disease to assist wildlife veterinarians in evaluating the health of dolphins and other cetaceans.

TRAINING COURSES

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 – EMSA Academy 2022. [Courses Catalogue](#)
- FRANCE - CEDRE - Click on these links [training catalogue](#) and [2022 calendar](#).
- 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

NEWFOUNDLAND: Contaminated Sites Health & Safety Training (40-Hour Hazwoper), St Johns, Nov. 14-18

<https://econext.ca/contaminated-sites-health-safety-training-40-hour-hazwoper/>

ONLINE: CLASSIFICATION AND LABELLING OF CHEMICALS AND POISON CENTRE NOTIFICATIONS

From Chemical Watch – “Our online training course, Classification and Labelling of Chemicals and Poison Centre Notifications, will be taking place on 2 December.” [More info](#)

CERTIFICATE IN MARITIME ENVIRONMENT MANAGEMENT

Online from Lloyds Maritime Academy, starts 25th January 2023. [More info](#)

UPCOMING EVENTS

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

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NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- USA NPETE DOT PHMSA Grant HAZMAT Regulations Training Workshop - October 25-27
- UK & Ireland Spill Association Annual Conference & Awards: 9-10 November

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- OSRL TPR Series Webinar on Dispersants, October 18, 1430-1500 Andy Nicol
- Basic Concepts Webinar, Flexible Spill Containment, October 18, 11 am to Noon, EDT
- OSRL Webinar, Oiled Wildlife & Preparedness, Perspectives from S.E. Asia, Thursday 19th October 2022 - 13:30 to 14:30 Singapore time, Norman Ramos, Principal Trainer & Consultant, and Yow Lih Hern, Senior Consultant
- Webinar - ExxonMobil Oil Spill Response Knowledge Transfer Webinar Series - “A brief but spectacular story about the creation of the ESI shoreline ranking concept, and the oil behavior, impacts, response options, and recovery in marshes” Dr. Jacqueline Michel (Research Planning, Inc.), : November 1st, 2022, 10-11:15 am
- Webinar – Remediation & Management of PFAS & Other Emerging Contaminants, 2nd November, 1500-1630 GMT
- Singapore – MEPSEAS Technology Conference, 15-17 November, 2022

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

MESSAGES FROM EVENT ORGANISERS

USA: CLEAN GULF CONFERENCE & EXHIBITION – NOVEMBER 8-10, 2022

This year’s CLEAN GULF Conference & Exhibition, November 8-10 in New Orleans, has a jam-packed exhibit hall filled with 100+ companies showcasing products and services such as chemical detection, compliance solutions, containment equipment, data processing, disaster communication, drones, surveillance technologies, incident software, in situ burn products, response software, restoration tools, risk analysis, safety equipment, skimmers, swiftwater boom, waste disposal and much more!

The exhibit hall will be open November 9-10, with networking breaks built into the schedule to allow for ample time to visit with the exhibitors and network with your peers. You can choose to attend the full conference + exhibition, November 8-10, or just attend the exhibition. The conference offers over 30 sessions to choose from + 2 training workshops, Keynote and State & Federal Updates.

[Download the Digital Brochure](#) [View Exhibition Contract](#) [View Conference Sessions](#) [Register for Clean Gulf](#)

ITALY: ECOMONDO EXPO, RIMINI, 8-11 NOVEMBER, 2022

At Ecomondo 2022, we present, compare and identify the most appropriate technological solutions for reducing pollution and restoring the Mediterranean macro-region, and at the same time, bring together local institutions, private and public actors and financing entities as well citizens and consumers.

[Log in to the reserved area, fill in your data, download your ticket](#) [Digital Preview](#)

AUSTRALIA: ALGA GROUNDWATER FATE & TRANSPORT SYMPOSIUM

ALGA’s Groundwater Fate & Transport Special Interest Group (SIG) is pleased to announce the 2022 Groundwater Fate & Transport symposium will be held in Melbourne on 18 November 2022.

The symposium aims to share the latest insights, developments and applications for improving our understanding of contaminant behaviour in the environment. <https://www.cvent.com/c/abstracts/e9e34139-c7a0-4969-88b9-e2cfb510baab>

USA: CALIFORNIA - 10TH BIENNIAL OIL SPILL RESPONSE TECHNOLOGY WORKSHOP FEBRUARY/MARCH 2023

California Department of Fish and Wildlife Office of Spill Prevention and Response (OSPR) and Chevron 10th Biennial Oil Spill Response Technology Workshop February/March 2023 in California (TBD). Email or request more info: TechWorkshop2023@wildlife.ca.gov

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

NORWAY: NOSCA SEMINAR 2023: MARCH 20-24, 2023 NOSCA will arrange the next NOSCA Seminar in week 12/23 (20-24.03.23) in Bodø/Norway. Our main topic will be "Tomorrow's challenges and solutions within challenges and solutions within oil spill response".

Beside of two conference days, the seminar participants will be able to observe the large scale exercise "D1H" which will be carried out by NOFO and OKEA. For more information and registration please read <https://www.nosca.no/nosca-seminar/>

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

Clean Waterway takes place at the Hilton Denver City Center Hotel in Denver, CO, on April 11-13.

The [preliminary conference agenda](#) is now available for the 2023 CLEAN WATERWAYS Conference! A total of 12 sessions have been programmed by our [planning committee](#), which is made up of a group of operators, state and federal regulators, consultants, service companies and OSROs. They came together last month to create a program that ensures we deliver sessions covering the most pressing issues for spill prevention and response in the inland environment.

Registration rates are currently at a discount of \$350! These are the lowest rates offered for CLEAN WATERWAYS 2023 and expire on Friday, October 28th. [More News re conference & abstract submission](#) [Registration](#) [Introduction to the Planning Committee](#)

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

Spillcon 2023 has been confirmed for 11–15 September 2023 at the Brisbane Convention and Exhibition Centre, Queensland, Australia. For more information contact Spillcon Event Team, Nicky Reading, GPO Box 279, Canberra ACT 2601, Australia; Phone +61 417 244 355, Email spillcon@ajp.com.au

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INTERNATIONAL OPEN TENDER NOTIFICATION SERVICE

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

HNS GUIDE | POLLUTION PREPAREDNESS



October 12 - Under the auspices of the United Nations Environment Programme's Regional Seas Programme, through the Secretariat of the Regional Marine Pollution Emergency Response Centre for the Mediterranean Sea (REMPEC), the Helsinki Commission (HELCOM) and the Bonn Agreement for the Greater North Sea, a guide on the Hazardous and Noxious Substances (HNS) has been developed and published in 2021.

In the framework of the EU co-funded Western Mediterranean Region Marine Oil and HNS Pollution Cooperation (West MOPoCo) project, Cedre, ISPRA and ITOPF, provided technical assistance to gather in the guide state-of-the-art information on HNS pollution preparedness and response.

NEW PUBLICATIONS (CONTINUED)

As this guide is the output of an inter-regional coordinated effort between REMPEC, HELCOM and the Bonn Agreement, the content incorporate national experience in responding to chemical spills at sea and has been designed to meet the needs of the competent national authorities of Contracting Parties to three regional legal instruments, namely the Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean, the Convention on the Protection of the Marine Environment of the Baltic Sea Area, and the Agreement for cooperation in dealing with pollution of the North Sea by oil and other harmful substances. REMPEC / [Read more](#)

SEPTEMBER ISSUE OF CEDRE NEWSLETTER

- Emergency Response
- Cedre takes part in Sea Tech Week
- Cedre attends 18th European Researchers' Night
- European project meetings
- 4th MANIFESTS project meeting
- 1st HNS workshop with EMSA
- Testing buried oil detectors
- Participation in the 7th International Marine Debris Conference
- Spill response boom mooring trials in muddy substrates
- Meetings with Mediterranean operators of the aquatic litter monitoring networks
- Shrimp meets anode
- Second training session for OSRL, 13 to 16 September
- Aquatic litter monitoring site surveys in Normandy
- Observation of a clearance diver exercise

http://wwz.cedre.fr/en/content/download/10886/file/315_E.pdf

INCIDENT REPORTS

USA: HURRICANE IAN CAUSED GAS AND CHEMICAL SPILLS

October 5 - The full scope of Hurricane Ian's environmental impacts may not be known for months, but federal records provide an early glimpse of some of the damage dealt by the historically powerful storm. The snapshot of potential impacts — reported to the federal government by local agencies, corporations and private citizens — already paints a grim picture:

Thousands of gallons of boat fuel from sunken vessels fouling Florida's waters; chemicals released from a storm-damaged warehouse; more than 2,000 gallons of disinfectant leaking from a county-operated water utility pipeline.

Tampa Bay Times / [Read more](#)

USA: NORTH DAKOTA - MORE THAN 12,000 GALLONS OF OIL SPILLS IN MOUNTRAIL COUNTY

October 11 - The North Dakota Department of Environmental Quality says more than 12,000 gallons of crude oil spilled Monday at a rail loading facility in Mountrail County KVRR News / [Read more](#)

AUSTRALIA: TASMANIA - OIL SPILL IN LAUNCESTON'S TAMAR RIVER SPARKS CALLS FOR REMOVAL OF ABANDONED BOATS

October 12 - An oil spill in a major urban waterway in northern Tasmania has reignited debate about river management and removing "derelict" debris.

The EPA has moved to contain an oil spill in Launceston's Tamar River. It says the likely source of the spill is the Cape Bruny, built in 1949 and decommissioned in 1988

The Environment Protection Authority (EPA) said the "likely source" of the spill in Launceston's Tamar River was the rusting wreck of the tugboat "Cape Bruny" — a boat that has angered locals for years and sparked court action.

The EPA set up a boom around the tug and the nearby Harry O'May ferry on Tuesday to contain the spread, but was unable to determine exactly how much oil had leached into the estuary. ABC News / [Read more](#) [Thanks to John Wardrop]

POLAND REPAIRS OIL PIPELINE LEAK, SAYS PUMPING WILL RESUME

October 13 - The Polish operator of an oil pipeline said Thursday that it was repairing damage that caused a leak earlier this week to the main source of crude oil from Russia to Germany. PERN, the operator, also said it wants to resume the pumping of crude oil as soon as possible through the pipeline.

PERN detected a leak in the Druzhba pipeline on Tuesday evening 70 kilometers (45 miles) from the central Polish city of Plock.

The Druzhba pipeline, which in Russian means "Friendship," is one of the world's longest oil pipelines. After leaving Russia, it branches out to bring crude to points including Belarus, Ukraine, Poland, Hungary, Austria and Germany. AP News / [Read more](#)

INDONESIA: CONTAINER SHIP ON FIRE, SURABAYA

October 13 - Fire broke out in reportedly, engine room of container ship LIT ENTERPRISE at Tanjung Perak Port, Surabaya, Indonesia, in the evening Oct 13. Fire spread to superstructure and seems to be a big one, with fire engines and tug or tugs fighting fire both from berth and from seaside. Maritime Bulletin / [Read more and watch video](#) Related report in [The Maritime Executive](#)

RED SEA: CONTAINER SHIP TSS PEARL SANK, DRIFTING CONTAINERS IN THE AREA

October 14 - Container ship TSS PEARL on Oct 13 reported sank in Red sea after major fire. Many floating containers reported drifting in the area. Oct 7 UPDATE: From the looks of her, ship is suffering a major fire which erupted in containers, with thick black smoke billowing from burning containers, superstructure is engulfed in smoke and probably, fire, and is obviously uninhabitable. Maritime Bulletin / [Read more and watch video](#) Related Reports in [The Maritime Executive](#) and [Trade Winds](#)

ECUADOR PRIVATE OIL PIPELINE REPORTS SPILL FOLLOWING VANDALISM

October 14 - The operator of Ecuador's private oil pipeline on Friday disclosed a spill in the Andean country's Amazon region, saying vandals damaged tubing that was no longer in service and caused an unspecified quantity of crude still in the tube to escape into the environment. The company said it "managed to control the incident and begin cleanup operations," but did not specify how much crude had been spilled. Nasdaq / [Read more](#)

TAIWAN, CHINA: KOREAN TANKER IN LOAD SANK IN TAIWAN STRAIT

October 15 - Tanker KELSEY 2 sank in the morning Oct 15, 25nm south of Wuqui island, Kinmen County, Taiwan, Taiwan Strait. Tanker was en route from Hong Kong to Gunsan Korea, ETA Oct 16. Of 20 crew on board, 1 died, 19 were rescued and survived. Tanker is said to be in load, carrying cargo of oil and chemicals totalling 7,500 tons (cargo information not confirmed). According to preliminary investigation, tanker reported water ingress in aft section area, most probably in engine room. Maritime Bulletin / [Read more](#)

YEMEN: OIL PIPELINE SABOTAGED IN SHABWAH

October 15 - Armed groups on Saturday blew up a crude oil pipeline in Yemen's oil-rich Shabwah governorate, in the country's southeast. Local sources said armed gunmen blew up the oil pipeline, causing a fire and a crude oil spill, adding that the gunmen in question were soldiers who sabotaged the pipeline in response to being discharged from their unit.

This act of sabotage is the second in two months to target oil pipelines. One pipeline was attacked earlier on August 4, also in Shabwa. Repeated acts of sabotage on Yemen's oil infrastructure are causing even more damage to the war-ravaged and poverty- and famine-stricken country. Almayadeen / [Read more](#)

NIGERIA: ANOTHER ILLEGAL PIPELINE DISCOVERED IN DELTA

October 15 – Sources said that oil is being stolen through an abandoned pipeline linked to a high sea location where it is loaded onto vessels and sold overseas. The Street Journal / [Read more](#)

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