

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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- Mr John McMurtrie, VP and Editor (UK)
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- Mr John Wardrop (Australia)
- Mr Marc Shaye (USA)
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HEADLINE INTERNATIONAL NEWS

PLEASE CLICK ON THE BANNER BELOW FOR MORE INFORMATION



OUTLAW OCEAN PODCAST: INTENTIONAL DUMPING MAY BE WORSE THAN OIL SPILLS



October 31 - When a ship inadvertently spills oil, it's big news. But according to an investigation by [The Outlaw Ocean Project](#), a non-profit journalism organization based in Washington D.C, every three years, ships intentionally dump more oil than the Exxon Valdez and BP spills combined.

On August 23, 2013, Chris Keays, a newly hired engineer on an American cruise ship, the Caribbean Princess, knew immediately that something was amiss in the ship's engine room. Venturing into an unfamiliar section where he did not typically work, Keays saw an illegal device known in the industry as a magic pipe. From his marine studies in Glasgow, Keays knew exactly what he was looking at. Several feet long, the pipe stretched from a nozzle on a carbon filter pump to a water tank. Its magic trick? Making the ship's used oil and other nasty liquids disappear. Rather than storing the highly toxic effluent and unloading it at port, as the ship was legally required to do, the pipe was secretly flushing the waste into the ocean, saving the ship's owner, Carnival Corporation, millions of dollars in disposal fees and port delays.

The sixth episode of The Outlaw Ocean podcast, from CBC Podcasts and the L.A. Times, highlights a vexing and woefully under-discussed problem made possible by corrupt ship captains who use the so-called "Magic Pipe" that dumps oil discreetly under the water line rather than dispose of it onland [Read this article by Ian Urbina in The Maritime Executive and listen to the Podcast](#)

ISCO AMBASSADORS

(Members with special responsibilities in specified geographical areas)

Carlos Sagrera Latin America (Spanish speaking)
Matthew Sommerville UK London
John Noble UK London & South'ton
Wu Yue China

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Professional recognition is a visible mark of quality, competence and commitment, and can give you a significant advantage in today's competitive environment. All who have the relevant qualifications and the required level of experience can apply for Professional Membership of ISCO. The organization offers independent validation and integrity. Each grade of membership reflects an individual's professional training, experience and qualifications. You can apply for MEMBERSHIP (MISCO) or FELLOWSHIP (FISCO)

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ISCO NEWS

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REMINDER - ISCO AT CLEAN GULF IN NEW ORLEANS, 8-10 NOVEMBER, 2022

You are invited to visit ISCO at Booth No. 128 in the Exhibition Hall.

Helena Rowland will be on hand to welcome you and answer your questions on ISCO's current activities, the services we provide for the spill response community and our latest new developments.

Don't forget to leave your business card for a chance to win a bottle of Fine Scottish Malt Whisky in our traditional draw – The winner will be announced on the last day of the show.

Carlos Sagrera, ISCO's Representative for Latin America (Spanish speaking) will be there too. Within the accompanying conference, Carlos will be on the panel entitled International Response Case Studies – Part II, with a presentation entitled: Management of a Tier III Spill in Latin America: A Worst- Case Scenario in Peru (<https://www.cleangulf.org/conference-program/>). This should be a very interesting presentation.

At Clean Gulf you will meet other ISCO Corporate Members in the Exhibition and many other members will be participating in the Conference.

News received from Members

- Wu Yue, of Hong Kong Spill Response Technology Limited, advises that his colleague Mr.Jack.Li will attend Clean Gulf and would like to meet the ISCO Team and other Members.
- Ed Levine plans to be at Clean Gulf to present about the Oil in the Sea IV report.
- Larissa Montas, who is now a Research Associate at the University of Miami, will be joining the ISCO team at Clean Gulf.

INTERNATIONAL & REGIONAL NEWS

OCTOBER 2022 MEETING OF THE IOPC FUNDS' GOVERNING BODIES

November 1 - The governing bodies of the IOPC Funds held sessions from Tuesday, 25 to Friday, 28 October 2022 at the headquarters of the International Maritime Organization (IMO) in London. Sixty-two 1992 Fund Member States, including 23 Supplementary Fund Member States, and 13 observer organisations, attended sessions of the 1992 Fund Administrative Council, the 1992 Fund Executive Committee and the Supplementary Fund Assembly. This was the first meeting of the IOPC Funds' governing bodies to be held fully in-person since 2019. IOPC Funds / [Read more](#)

IPIECA: COP27 INSIGHTS AND EXPECTATIONS

November 1 - Ipieca Executive Director Brian Sullivan shares insights from the pre-COP27 technical workshops on the role of the industry in making Sharm el-Sheikh a success.

Since COP26 in Glasgow wrapped and the COP baton was passed to the Egyptian Presidency, frequent consultations, meetings and workshops have taken place at ministerial, delegation and technical levels to lay the foundations for a successful COP27 in Sharm el-Sheikh. IPIECA / [Read more](#)

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INTERNATIONAL SALVAGE UNION - ENVIRONMENT

Protecting the marine and coastal environments is a key role of members of the ISU. Often they are the only agency available to prevent a casualty from becoming an environmental catastrophe. They can help to prevent groundings, re-float vessels and remove polluting cargoes and fuel.

The work of the members of the ISU includes “traditional” pollution prevention and clean up using booms, skimmers, absorbents and beach cleaning. It also includes “high tech” interventions, for example, removing potentially polluting cargoes and bunker fuel from casualties and wrecks at great depth.

ISU members are expert at “hot tapping” to gain access to pollutants and to cleanly and safely remove them by drilling into the vessel from outside the hull. They use probes to extract the pollutants which might need heating to liquefy them in the cold surroundings of the deep ocean.

The ISU annual pollution prevention survey records the amount of pollutants involved in the casualty and wreck cases dealt with each year by its members. It includes hundreds of thousands of tonnes of oil and hundreds of thousands of tonnes of dirty bulk cargo, chemicals and bunker fuel.

ISU / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD

AUSTRALIA: AMSA - FOCUS ON POLLUTION PREVENTION – DOMESTIC COMMERCIAL VESSEL EDUCATION CAMPAIGN

November 4 - Between 17 October and 16 December 2022, we will be focusing our attention on the prevention of pollution from domestic commercial vessels. Our marine inspectors will be assisting vessel owners and operators to meet their obligations under the International Convention for the Prevention of Pollution from Ships (MARPOL). Some MARPOL regulations apply to DCVs, this includes preventing oil, sewerage, garbage, and air pollution from routine vessel operations. The focus of the campaign is to educate the industry and help promote compliance.

The International Convention for the Prevention of Pollution from Ships (MARPOL), which Australia is a party to, is implemented through the Protection of the Sea (Prevention of Pollution from Ships) Act 1983, the Navigation Act 2012 and AMSA’s Marine Orders that give effect to the applicable MARPOL Annexes. AMSA / [Read more](#)

CANADA: CANADA'S NEW OIL SPILL RESPONSE BARGES LAUNCHED



Photo courtesy of Robert Allan Ltd.

October30 - Two new oil spill response barges were recently completed at ASL Shipyard in Singapore for Western Canada Marine Response Corporation (WCMRC).

The two 3,500 tonne barges, Sentinel 303 and Sentinel 304, will be delivered to WCMRC in October, with arrival in Canada by the end of 2022. The response barges will join WCMRC's fleet of pollution response vessels stationed along the south coast of British Columbia. These new barges represent a significant enhancement to the pollution response capabilities already in place and will benefit the entire local maritime industry, according to their designer Robert Allan Ltd. Marine Link / [Read more](#)

[Editor: A related article in The Maritime Executive gives some additional details of the response equipment to be carried on board]

November 2 - The spill containment systems consist of four unsheltered booms stored in containers with hydraulic reels, Current Buster No. 4 and Current Buster No. 6 stored in a single container with hydraulic reels, and four containers of general-purpose boom. There is ample storage for absorbents, mission-specific containers, general equipment, decontamination gear, dry storage, and a containerized workspace.

Two small vessel docks are stored onboard and can be deployed on port and starboard sides to allow other response vessel crews to embark/disembark to/from the response barges and facilitates the transfer of recovered oil from the response vessels to the response barge. A Desmi Terminator skimmer and hose reel allows the response barges to recover oil floating on the surface. Two mini storage barges are stowed on deck and can be deployed in the field to aid in the response.

The Maritime Executive / [Read more](#) [Thanks to Dan Sheehan, Hon.FISCO]

CHILE: MARITIME AUTHORITY SUPERVISED SPILL DRILL AT ENAP MAGALLANES MARITIME TERMINAL

November 2 - The Maritime Government and Captaincy of the Port of Punta Arenas moved to the maritime terminal "Cabo Negro", with the objective of verifying the development of the annual exercise to combat pollution, where an oil spill was simulated.

The naval servers were received by the Head of the Maritime Terminals Division of Enap Magallanes, Agustín Arancibia, who explained part of the stages of the exercise to be developed to verify compliance with the protocols explained by the entity in its emergency plan for this type of situation. "We seek to evaluate the equipment and personnel in the preparation we have in relation to a contingency of oil spill at sea. Measure response times, evaluate the result that may have the provision of equipment in the water and also the skills of the personnel who normally participate in these emergencies," said the Head of Maritime Terminals of Enap. Maritime Government of Punta Arenas / [Read more](#)

EGYPT: NEW IMO OFFICE TO BE LOCATED IN MENA REGION

October 28 - IMO has agreed to boost its regional presence, with the establishment of a regional presence office in the Middle East and North Africa (MENA) region, to be hosted in Alexandria, Egypt.

The IMO Technical Cooperation Committee (TCC), at its 72nd session (17-20 October), agreed to the establishment to enhance IMO's coordination of technical assistance for the MENA region.

The new office will complement existing regional presence offices: five Regional Coordinators based in Abidjan, Côte d'Ivoire for west and central Africa (Francophone); Accra, Ghana for west and central Africa (Anglophone); Nairobi, Kenya for eastern and southern Africa; Manila, the Philippines for East Asia; and Port of Spain, Trinidad and Tobago for the Caribbean. IMO has also been funding one Technical Cooperation Officer within the Pacific Community (SPC), based in Suva, Fiji, and a new regional presence office for the Pacific Islands will be operational in Fiji next year. IMO / [Read more](#)

GERMANY: NEW VIDEO RELEASED: BALEX DELTA 2022 OIL RESPONSE EXERCISE IN WARNEMÜNDE

October 27 - Held every year since 1989, the HELCOM BALEX DELTA is an annual operational exercise designed to test the readiness for responding to pollution incidents such as oil spills or chemical leakages from shipping accidents in the Baltic Sea. It checks our alarm procedures, the know-how and operational capability for responding to spills, and the cooperation between the Baltic Sea countries. HELCOM / [Read more and watch the new video](#)

GREECE: HELMEPA'S 40TH ANNUAL ORDINARY GENERAL MEETING

The Board of Directors of the Hellenic Marine Environment Association (HELMEPA) convenes the 40th Annual Ordinary General Meeting with physical presence on Tuesday, November 29, 2022, at 12:00 at the hotel "Grand Hyatt Athens" in Athens, on Leof. Syggrou no. 115 and then online between 13:00 – 17:00 and invites the cash-informed Members to take part in order to discuss and take decisions on the items of the Agenda. HELMEPA / [Read more](#)

SINGAPORE: MARITIME AND PORT AUTHORITY CIRCULAR ON MARPOL REGS.

October 31 – Download and read the new MARPOL regulations that become effective on 1st November 2022.

<https://www.mpa.gov.sg/docs/mpalibraries/media-releases/sc-no-16-of-2022---amendments-to-pps-regulations>

TUNISIA: MOIG: PARTICIPATION - ETAP MAIN EXPERTISE COMMITTEE MEETING

November 2 - 21 October 2022, ETAP; member and hosting company; invited the MOIG Director to the main expertise committee meeting in order to approve the assessment results of 34 engineers applying for various expertise levels from confirmed to senior 3 engineers; according to ETAP expertise system. The MOIG Director participated to this meeting as a representative of Health, Safety and Environment (HSE) job. MOIG / [Read more](#)

UK: ENVIRONMENTAL PROTECTION ON INSOLVENCY: WHERE DOES THE BALANCE LIE?

October 31 - When companies enter insolvency, the balance between protecting the interests of creditors and safeguarding the environment is often in tension. As economists talk of a UK recession, this article considers the current legal position, the potential for evolution and the impact on business owners and investors.

In the words of its new prime minister, Rishi Sunak, the United Kingdom faces "a profound economic crisis" with "difficult decisions" ahead, but Sunak insists that "protecting our environment" is a manifesto commitment that his government will deliver. Striking that balance is a challenge, and never more so when money runs out and companies enter insolvency.

[Editor: An interesting article for members of our community with a legal interest in pollution matters] Lexology / [Read more](#)

UK: DEFRA MEETS WITH BUSINESSES TO HELP SHAPE GLOBAL TREATY ON PLASTICS POLLUTION

November 3 - The Department for Environment, Food and Rural Affairs (Defra) has kickstarted a series of meetings with businesses to help shape the global treaty to end plastics waste, likened to the Paris Agreement for a circular economy. Defra confirmed on Tuesday that it had held its first meeting with a host of corporates and NGOs to gather views and evidence to help shape a legally binding global treaty on plastic pollution. In partnership with the Ocean Plastics Leadership Network, Defra met with stakeholders including Tesco, Sainsbury's, Coca Cola, Nestle, H&M and Greenpeace. More meetings will be held in the future to help shape the global treaty that the UK is co-sponsoring.

The UN concluded its latest Environment Assembly conference in Nairobi in March this year, with the agreement of terms for a global treaty to stop plastic pollution making headlines. Two main resolutions had been put forward ahead of the meeting. One, supported by more than 70 nations, including 27 EU member states, included a requirement to reduce plastic production. The other, tabled by Japan and supported by the likes of the US, China, Sri Lanka, Cambodia and Palau, did not include this requirement, placing instead a greater focus on scaling recycling and energy-from-waste. EDIE / [Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

October 31 – Please click on the links below to download and read the latest News Reports from NOAA OR&R.

Disaster Preparedness Program Leads Great Shakeout Exercise

Nearly half of all Americans are exposed to potentially damaging earthquakes where they work and live. Still, others will be at risk when traveling. It's a good idea for everyone, everywhere to know how to protect themselves during an earthquake.

NOAA Team and Partners Clean Up Debris at Kaunāmano, Hawaii



People on a beach. Volunteers begin removing marine debris from a small cove at Kaunāmano. Image credit: Mark Manuel/NOAA.

On Oct. 15, NOAA Marine Debris Program's Pacific Island Regional Coordinator Mark Manuel participated in a remote beach cleanup with Fiscal Year 21 removal grantee, Hawaii Wildlife Fund.

USA: MARINE RESEARCH HUB SUMMIT AT FLIBS 2022

November 1 - The Marine Research Hub (MRH) hosted the fifth annual Summit during the 63rd Annual Fort Lauderdale Boat Show (FLIBS), sharing marine research and solutions with emerging commercialization potential.

Water Warriors, Inc., co-founder & CEO, Steve Chamberland, shared the innovative technology of their Poseidon Pellets. These pellets absorb phosphorus on contact, preventing algae blooms and loss of marine life by controlling the flow of nutrients.

Kintra Fibers, Inc. Alissa Baier-Lentz, COO and co-founder, shared their new polyester that is bio-based, biodegradable, and compatible with standard manufacturing equipment. Kintra addresses the microfiber pollution and textile waste.

Dr. Jim Materson, Florida Atlantic University (FAU), shared the innovative aquaculture research and products at their facilities. Part of the FAU innovation in aquaculture is their Recirculating Aquaculture System (RAS) and Integrated Multi-Trophic Aquaculture (IMTA), which cycles the whole system with no waste.

MRH alliance of marine research universities and community supporters' goal is connecting all these entities to commercialize and monetize innovative marine solutions to grow our blue economy and create sustainable environmental change both locally and globally. The Maritime Executive / [Read more](#)

USA: CALIFORNIA - OSO FLACO LAKE REMEDIATION PROJECT WILL TARGET 'PERSISTENT AND PERNICIOUS' DDT POLLUTION

November 2 - Nearly a decade after researchers found more DDT pesticides in Oso Flaco Lake than in any other water body in the state, local stakeholders are finally zeroing in on a project they say will help fix it.

The Coastal San Luis Resource Conservation District (RCD) is partnering with Teixeira Farms on a remediation project to reduce DDT levels in the scenic lake nestled between Santa Maria agricultural fields and the Guadalupe-Nipomo Dunes

The project involves the removal of more than 25,000 cubic yards of sediment across a 1.2-mile stretch of Oso Flaco Creek. That material will be excavated, trucked, and dumped onto a 26-acre plot of Teixeira Farms-owned land for remediation. Turning the soil "every month or so" will help incorporate more oxygen and break down the DDT. Santa Maria Sun / [Read more](#)

YEMEN: UPDATED PLAN - AVERTING THE YEMENI COAST CATASTROPHE

October 28 - Earlier this year, an UN-coordinated plan to secure the Safer and its oil received backing from the Yemeni Government and the de facto authorities in the capital of Sana'a, who control the area where Safer is located.

"The plan has two phases, first the emergency phase to secure the vessel and then to transfer the oil onto a temporary safe location," says Geekie. Smit Salvage is expected to conduct the much-needed work to secure Safer and transfer the oil to a safe location (a leased tanker). Safer's tanks will also need cleaning to "make the vessel safe for salvage, but also reduce environmental impacts should the vessel break up [after the oil is removed]," Geekie explains. The second phase is to install a long-term replacement for Safer, a double-hull vessel tethered to a CALM (catenary anchor leg mooring) buoy system.

IMarEST / [Read more and watch video](#)

NEWS FROM ISCO MEMBERS

Corporate Members of ISCO can by submitting news about new products and services in the "News from ISCO Members" section of the ISCO Newsletter. This is a FREE facility for Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 50 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

FLOATING TRASH BARRIER DEVELOPED BY AlphaMERS EMERGES AS WINNER IN CLEAN WATERBODY CHALLENGE



A floating trash barrier (FTB), developed by a Bengaluru firm and deployed in eight cities across India to trap trash in waterbodies, has won the Cleaning and Restoring India's Water Bodies Challenge conducted by the Office of the Principal Scientific Advisor (PSA)

The FTB performance was evaluated by a jury panel comprising of experts from academia, industry, and the government. "Based on the panel evaluation, AlphaMERS Ltd.'s floating trash barrier was selected as one of the winners of the challenge. The panel observed that the floating trash barrier could address the

serious environmental issue of floating solid waste pollution plaguing India's waterbodies," stated the communication.

The FTB uses the natural flow of water to bring the trash to the riverbank where it is deployed and from there the trash is manually or mechanically removed.

The FTB is deployed in eight cities — Bengaluru, Chennai, Puducherry, Hyderabad, Mysuru, Thanjavur, Tuticorin, and Coimbatore. The FTB is said to be successful in cleaning up the Cooum in Chennai and also the Musi in Hyderabad. In Bengaluru, it has also been deployed in some storm-water drains, and Nagawara and Dasarahalli lakes. Asia News / [Read more](https://alphamers.com) <https://alphamers.com>

INTRODUCING A DIGITAL JOB AID FOR THE FEASIBILITY OF OILED SHORELINE TREATMENT OPTIONS



Introducing a Digital Job Aid for the Feasibility of Oiled Shoreline Treatment Options A new analytical assessment tool, the Feasibility Analysis for Shoreline Treatment (FAST) application, has just been released online to help users access information for the operational practicality of shoreline treatment options for Temperate and Arctic/Winter Marine Climates.

The online application is designed to support the decision-making process by eliminating impractical or unfeasible treatment options. Planners and decision makers in a spill management team then can focus on feasible options and proceed on to the next steps considering environmental and other potential constraints.

The Decision Support Tool (DST) synthesizes hundreds of pages of text from the many international field guides and technical manuals that describe a wide range of oiled shoreline treatment and cleanup options. Through an Information Pyramid structure, the information is distilled into a digital database that can be simply accessed through the FAST application. The FAST user-interface is designed for quick and easy navigation to data and information layers that are increasingly more informative for the interested user.

The scenario for each customized query in the Job Aid is created by the input combination of (a) five oil types, (b) fifteen shoreline types, and (c) surface or subsurface oiling conditions. Twenty-two (22) shoreline treatment methods are evaluated with respect to these scenario inputs.

The evaluation is a stepwise process, and four main outputs are produced from the input variable selections: Results (Feasibility Analysis Results Table), Headlines (Feasibility Analysis Main Tradeoffs), Consequences (Feasibility Analysis Primary Concerns & Trade-Offs) and Resources (Output Resource Citations).

The source information for the four output resources are referenced in the Resource Library which provides a set of Fact Sheets for the input variables (Oil Type, Oil Location and Shoreline Type) and the Treatment Methods. Users have the option to either directly download or e-mail the feasibility results. FAST, streamlines and simplifies relevant information for the first steps of the decision-making process in oil spill response shoreline treatment selection. The on-line application can be accessed from www.fastshores.com

FAST was prepared jointly by Owens Coastal Consultants, Polaris Applied Sciences & Zero Plus Productions.

For more information visit www.fastjobaid.com or contact us at: ed@owenscoastalconsultants.com or fastshoreline@gmail.com - Short Video (3:30): https://youtu.be/mpTX_rkx-vY

NEWS FROM ISCO MEMBERS (CONTINUED)

A SPECIAL MESSAGE FROM ISCO MEMBER AND CO-FOUNDER OF AQUA-GUARD SPILL RESPONSE INC (NIGEL BENNETT)



"I am sleeping out on the streets again on Nov 17th here in Vancouver, Canada (brrrr) to help raise funds for our at risk youth.

ISCO member and Co-Founder of Aqua-Guard Spill Response Inc (Nigel Bennett) based in Vancouver Canada is sleeping on the streets again to help bring awareness to the issue of at risk youth.

With an abrupt end to summer, the cold weather is here with a vengeance. Nigel is fundraising for his upcoming sleep out Nov 17th in support of our at-risk youth.

Over the past 6 years with your fantastic support he has been able to exceed his goal of giving to this worthy cause.

He is challenging all other ISCO members to help him exceed his target with a big ask to donate whatever you can to help our homeless youth.

On November 17th, Nigel will sleep outside for one night in solidarity with those youth who may face many more cold, lonely nights until they find their way through the doors of Covenant House Vancouver.

Please help him do his small part to make sure the doors stay open for all those youth who need them.

Nigel would really appreciate your support again this year by giving generously! Just click below to donate whatever you can.

"Love and thanks to the ISCO community around the globe. Together, we are working towards a future where every young person has a safe place to sleep. - Nigel"

CLICK THE "DONATE" BUTTON TO GIVE. <http://support.covenanthousebc.org/goto/NigelBennett>

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/>

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.

191. Effects of microplastics alone or with sorbed oil compounds from the water accommodated fraction of a North Sea crude oil on marine mussels (*Mytilus galloprovincialis*)

González-Soto, N., Campos, L., Navarro, E., Bilbao, E., Guilhermino, L., Cajarville, M.P.
(2022) Science of the Total Environment, 851, art. no. 157999,
DOI: 10.1016/j.scitotenv.2022.157999

ABSTRACT: Microplastics (MPs) can adsorb persistent organic pollutants such as oil hydrocarbons and may facilitate their transfer to organisms (Trojan horse effect). The aim of this study was to examine the effects of a 21 day dietary exposure to polystyrene MPs of 4.5 µm at 1000 particles/mL, alone and with sorbed oil compounds from the water accommodated fraction (WAF) of a naphthenic North Sea crude oil at two dilutions (25 % and 100 %), on marine mussels. An additional group of mussels was exposed to 25 % WAF for comparison. PAHs were accumulated in mussels exposed to WAF but not in those exposed to MPs with sorbed oil compounds from WAF (MPs-WAF), partly due to the low concentration of PAHs in the studied crude oil. Exposure to MPs or to WAF alone altered the activity of enzymes involved in aerobic (isocitrate dehydrogenase) and biotransformation metabolism (glutathione S-transferase). Prevalence of oocyte atresia and volume density of basophilic cells were higher and absorption efficiency lower in mussels exposed to MPs and to WAF than in controls. After 21 days MPs caused DNA damage (Comet assay) in mussel hemocytes. In conclusion, a Trojan horse effect was not observed but both MPs and oil WAF caused an array of deleterious effects on marine mussels at different levels of biological organization.

192. Migration and energetics model predicts delayed migration and likely starvation in oiled waterbirds

West, B.M., Wildhaber, M.L., Aagaard, K.J., Thogmartin, W.E., Moore, A.P., Hooper, M.J.
(2022) *Ecological Modelling*, 474, art. no. 110138, .
DOI: 10.1016/j.ecolmodel.2022.110138

ABSTRACT: Oil spills can inflict mortality and injury on bird populations; many of these deaths involve starvation resulting from thermoregulatory costs incurred by oiling of birds' feathers. However, the fates and responses of sublethally oiled birds are poorly known. Due to this knowledge gap and the potential for birds to die far from the spill site, resource risk and injury assessors need tools to make informed estimates for delayed deaths and lost reproductive capacity in these birds. Focusing on the thermoregulatory cost of oiled feathers, we present a model addressing one facet of the effects of sublethal oiling on birds. Using mallard-like ducks as a model organism, we combined values from previous laboratory studies of oiled birds with a modified version of an existing temperature-influenced avian migration energetics model. Using this model, we examined the potential effects of oiling on general migration patterns, changes in energetic gains required to compensate for oiling, and starvation. We assessed all metrics across multiple oiling severities; we assessed starvation across both oiling severity and body condition. Median estimates for delays in spring migration were one to two months for trace and lightly oiled birds, and we predicted arrested spring migration in moderately oiled birds. Median estimates of required increases in energetic gains to offset costs of increased thermoregulation ranged from 20.3% to 88.6% depending on severity of oiling. We predicted starvation within four weeks for most combinations of oiling severity and body condition at the median predicted minimum wintering temperature of unoiled birds (-4.9°C). However, at the average winter temperature of the southernmost model latitude (10.8°C), we predicted only moderately oiled birds in less-than-excellent body condition had the potential to starve within a four-week time frame.

Due to the potential for even trace oiling to delay spring migration and decrease body condition, the thermoregulatory costs of sublethal oiling during spring migration could reduce a bird's reproductive capacity.

Future research integrating this initial energetics-based model into a spatially explicit, population scale migration model could provide additional insight into the potential effects of sublethal oiling on reproduction and survival. Such an integrated model could strengthen risk predictions and injury assessments for birds subjected to sublethal oiling.

193. Is there a similarity between the 2019 and 2022 oil spills that occurred on the coast of Ceará (Northeast Brazil)? An analysis based on forensic environmental geochemistry

Azevedo, R.N.A., Bezerra, K.M.M., Nascimento, R.F., Nelson, R.K., Reddy, C.M., Nascimento, A.P., Oliveira, A.H.B., Martins, L.L., Cavalcante, R.M.
(2022) *Environmental Pollution*, 314, art. no. 120283,
DOI: 10.1016/j.envpol.2022.120283

ABSTRACT: The main objective of this study was to investigate the 2019 and 2022 oil spill events that occurred off the coast of the State of Ceará, Northeastern Brazil.

To further assess these mysterious oil spills, we investigated whether the oils stranded on the beaches of Ceará in 2019 and 2022 had the same origin, whether their compositional differences were due to weathering processes, and whether the materials from both were natural or industrially processed. We collected oil samples in October 2019 and January 2022, soon after their appearance on the beaches. We applied a forensic environmental geochemistry approach using both one-dimensional and two-dimensional gas chromatography to assess chemical composition. The collected material had characteristics of crude oil and not refined oils. In addition, the 2022 oil samples collected over 130 km of the east coast of Ceará had a similar chemical profile and were thus considered to originate from the same source. However, these oils had distinct biomarker profiles compared to those of the 2019 oils, including resistant terpanes and triaromatic steranes, thus excluding the hypothesis that the oil that reached the coast of Ceará in January 2022 is related to the tragedy that occurred in 2019. From a geochemical perspective, the oil released in 2019 is more thermally mature than that released in 2022, with both having source rocks with distinct types of organic matter and depositional environments.

As the coast of Ceará has vast ecological diversity and Marine Protected Areas, the possibility of occasional oil spills in the area causing severe environmental pollution should be investigated from multiple perspectives, including forensic environmental geochemistry.

194. An annual profile of the impacts of simulated oil spills on the Northeast Arctic cod and haddock fisheries

Carroll, J., Frøysa, H.G., Vikebø, F., Broch, O.J., Howell, D., Nepstad, R., Augustine, S., Skeie, G.M., Bockwoldt, M.
(2022) Marine Pollution Bulletin, 184, art. no. 114207,
DOI: 10.1016/j.marpolbul.2022.114207

ABSTRACT: We simulate the combined natural and pollutant-induced survival of early life stages of NEA cod and haddock, and the impact on the adult populations in response to the time of a major oil spill in a single year. Our simulations reveal how dynamic ocean processes, controlling both oil transport and fate and the frequency of interactions of oil with drifting fish eggs and larvae, mediate the magnitude of population losses due to an oil spill. The largest impacts on fish early life stages occurred for spills initiated in Feb–Mar, concomitant with the initial rise in marine productivity and the earliest phase of the spawning season. The reproductive health of the adult fish populations was maintained in all scenarios. The study demonstrates the application of a simulation system that provides managers with information for the planning of development activities and for the protection of fisheries resources from potential impacts.

195. Impact of Petroleum Contamination on the Structure of Saline Soil Bacterial Communities

Zhang, Y., Sun, X., Qian, C., Li, L., Shang, X., Xiao, X., Gao, Y.
(2022) Current Microbiology, 79 (11), art. no. 351,
DOI: 10.1007/s00284-022-03057-3

ABSTRACT: Petroleum contamination may lead to variations in soil microbial community structure and activities. The bioremediation of petroleum-contaminated soil typically depends on the characteristics and activities of oil-degrading microorganisms, which can be introduced or be part of the native soil microbiota. Thus, analyzing the structure of the microbial community and internal relationships in the bioremediation process is critical. Our study characterized the physical and chemical properties, microbial community structure, and microbial diversity of surface soil collected near an oilfield. The total carbon (TC), total organic carbon (TOC), and microbial diversity in oil-contaminated soil was found higher than in uncontaminated samples. Proteobacteria abundance was inhibited with oil pollution, while Actinomycetes abundance was enhanced. Some indigenous hydrocarbon-degrading bacteria were enriched by oil pollution, such as *Bacillus*, *Actinomarinalesnorank*, *Balneolaceaeuncultured*, *Marinobacter*, and *Pseudomonas*. Furthermore, *Rokubacteria*, *Nitrospirae*, and *Enttheonellaeota* were significant differences in the contaminated group. There were 16 genera with significant differences in the polluted group, such as *Woeseia*, *Pelagibius*, *Pontibacillus*, *IS_44*, *Aliifodinibius*, while *Halothiobacillus*, *Algoriphagus*, *Novosphingobium*, etc. had significant differences in the uncontaminated group. Redundancy analysis demonstrated that the responses of the microorganisms to the evaluated environmental factors were different, and TC was the most important driver of microbial community variation. Moreover, TOC was the largest contributor to operational taxonomic unit (OTU) and Chao index variations. Our results provide a theoretical basis for the enhancement of microbial activity in oil-contaminated soil, which might improve bioremediation efficacy.

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

Aa, I., Op, A., Ujj, I., Mt, B.
(2022) Environmental Monitoring and Assessment, 194 (11), art. no. 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.

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>

TRAINING COURSES (CONTINUED)

- 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

TRAINING COURSE: 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](#)

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/>

USA: ITRC VAPOR INTRUSION MITIGATION (VIM-1): A TWO PART SERIES

November 3 and 15, 2022. When certain contaminants or hazardous substances are released into the soil or groundwater, they may volatilize into soil gas. Vapor intrusion (VI) occurs when these vapors migrate up into overlying buildings and contaminate indoor air. ITRC has previously released guidance documents focused on VI, including the "Vapor Intrusion Pathway: A Practical Guidance" (VI-1, 2007) and "Petroleum Vapor Intrusion: Fundamentals of Screening, Investigation, and Management" (PVI, 2014). However, ITRC has received multiple requests for additional details and training on mitigation strategies for addressing this exposure pathway. The ITRC Vapor Intrusion Mitigation Team (VIMT) created ten fact sheets, 16 technology information sheets, and 4 checklists with the goal of assisting regulators during review of vapor intrusion mitigation systems, and helping contractors understand the essential elements of planning, design, implementation, and operation, maintenance and monitoring (OM&M) of mitigation systems. The Vapor Intrusion Mitigation training is a series of eight (8) modules, presented over two sessions. For more information and to register, see <https://www.itrcweb.org> or <https://clu-in.org/live>

CERTIFICATE IN MARITIME ENVIRONMENTAL MANAGEMENT – LLOYD’S MARITIME ACADEMY

Understand environmental issues and related management matters in the maritime sector

Course commences 25th January 2023 | (VIP CODE: TT01)

Don't delay enrolment! Applications received before the 2nd December will receive a 10% reduction in fees

[Click here for course content](#) | [Click here for Fee information](#) | [Click here to view course homepage](#)

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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

NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- Malta: First Coordination Meeting on the Mediterranean Strategy for the Prevention of, Preparedness, and Response to Marine Pollution from Ships (2022-2031), Nov 29, 2022 to Dec 01, 2022

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- Singapore – MEPSEAS Technology Conference, 15-17 November, 2022
- HalenHardy Webinar – Spill Preparedness at Multiple Sites, 16th November 2022
- UK: Hazmat 2023 Conference, 24-25 May 2023

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 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](#) [How to get to Ecomondo](#) [FIND OUT THE EUROPEAN PROJECTS AND ACTIVITIES AT ECOMONDO 2022](#)

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

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 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.. [More News re conference & abstract submission](#) [Registration](#)

[Introduction to the Planning Committee](#) [EXHIBIT SPACE AND SPONSORSHIPS ARE AVAILABLE](#)

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, 417 244 355, Email spillcon@aip.com.au

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES

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/>

CONTRACTS, TENDERS AND BUSINESS OPPORTUNITIES (CONTINUED)

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>

LINKS FOR DOWNLOADING AND READING OTHER PUBLICATIONS

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

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

NEW PUBLICATIONS

MEDITERRANEAN OIL INDUSTRY GROUP – OCTOBER 2022 NEWSLETTER

- REGIONAL WORKSHOP ON ENHANCING OIL SPILL PREPAREDNESS AND RESPONSE
- MANAGEMENT COMMITTEE MEETING N°21 – GENERAL ASSEMBLY MEETING
- PARTICIPATION TO ETAP MAIN EXPERTISE COMMITTEE MEETING

[Download the October Newsletter](#)

UK & IRELAND SPILL ASSOCIATION – SPILL ALERT ISSUE 24



- It includes articles on the Gibraltar Port Spill following a vessel collision, an update on the Peru Spill, and on the MV X-Press Pearl incident.
- We have CEO Insights from Karen Lucas, MD of Vikoma, which provides a look inside a busy manufacturing business and how it is coping with Brexit, resources, and managing its supply chain
- We explain our initiative on developing new Career Pathways for all involved in Spill and Incident Response and welcome your views.
- There is plenty of Industry News and Member News.
- The article on 'What makes a good Spill Response Exercise' is well worth a read – plenty of wisdom in this from experienced individuals in the industry!
- We have case studies from Adler and Allan and Zwanny.
- We report from Interspill 2022 and Contamination Expo.
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[DOWNLOAD SPILL ALERT ISSUE 24](#)

UK: EXETER QUAY OIL SPILL AFTER SHIP SINKS

October 31 - A ship in Exeter Canal has sparked an oil spill in the Exeter Quay area after it sank overnight at the weekend.

Harbour Master Grahame Forshaw explains that a specialist contractor has been brought in to assist with the work Grahame said: "A number of booms have been set up across the canal to contain the oil and diesel and then the boat will be lifted out of the water". Work to remove the spillage and investigate its cause remains ongoing at this time. Absorbent pads are being used to mop up oil that has entered the Canal basin, along with any other spillages. Devon Live / [Read more](#)

PERU: INDIGENOUS PEOPLE IN PERUVIAN AMAZON DETAIN TOURISTS IN OIL SPILL PROTEST

November 4 - Indigenous people in the Amazon in Peru have detained a group of Peruvian and foreign tourists, including UK and US citizens, in protest at a lack of government aid following an oil spill in the area.

"[We want] to call the government's attention with this action, There are foreigners and Peruvians, there are about 70 people," Watson Trujillo, the leader of the Cuninico community, told RPP radio. French, Spanish and Swiss citizens are also among the detained tourists, who were held while travelling on a river boat. Trujillo said his group had taken the "radical measure" in an effort to put pressure on the government to send a delegation to assess the environmental damage from the spillage of 2,500 tons of crude oil into the Cuninico River on 16 September. The Guardian / [Read more](#)

November 4 - Tourists held by Peruvian indigenous group protesting oil spill are freed, says official. CNN / [Read more](#)

November 5 – Report received from Carlos Sagra, ISCO Representative in Latin America (Spanish Speaking) – "The ineffective response to an oil spill from the Norperuano Pipeline (ONP - Section No. 1) operated by Petroperú SA in the Cuninico area (Uraninas district in the Loreto province of the Peruvian Amazon) at the end of September, with important effects on the Marañon River and the indigenous communities that live on its banks, generated reactions in recent weeks and that included the retention of a tourist boat with 150 passengers who were finally released this week, after intense efforts by the Government in dialogue with the indigenous communities affected by the spill, who point out the insufficient support they receive from the responsible company.

Indeed, after the initial reports of the spill by the Environmental Assessment and Enforcement Agency (OEFA), the Peruvian Ombudsman's Office warned of the insufficiency of the containment barriers installed in the river by the company and the need to declaration of emergency within the framework of SINAGERD (National Risk and Disaster Management System) and the Ministry of the Environment (MINAM) due to insufficient attention to environmental and socio-economic damage to indigenous communities. The company Petroperú, through its Management, reported that the spill in Cuninico was the product of an intentional cut in the pipeline and that those affected were being treated. Official versions accuse the communities themselves of these attacks, but they deny it, indicating that they do not have the resources for these acts and that they also threaten their own interests due to the damage they cause. According to a report by OXFAM and the National Human Rights Coordinator of Peru entitled "The Shadow of Hydrocarbons in Peru <https://oi-files-cng-prod.s3.amazonaws.com/peru.oxfam.org/s3fs-public/fileattachments/La-sombra-de-los-hidrocarburos-en-el-Peru%CC%81.pdf>), between 1997-2021, there have been 566 oil spills in the Peruvian Amazon, being those of the ONP in a 33% due to operational failures, 22% due to corrosion, 13% due to natural causes (earthquakes and avalanches) and 31% due to acts of third parties (sabotage). News, photos and map of the Peruvian and international press in Spanish are attached".

https://oi-files-cng-prod.s3.amazonaws.com/peru.oxfam.org/s3fs-public/file_attachments/La-sombra-de-los-hidrocarburos-en-el-Peru%CC%81.pdf

<https://elpopular.pe/actualidad/2022/09/16/loreto-derrame-petroleo-llego-rio-maranon-cinco-pueblos-se-encuentran-afectados-foto-video-151887>

<https://www.actualidadambiental.pe/piden-declarar-en-emergencia-ambiental-zona-afectada-por-nuevo-derrame-en-cuninico/>

<https://larepublica.pe/sociedad/2022/11/04/mujer-retenida-por-comuneros-cuninico-en-loreto-ante-derrame-de-petroleo-sospechamos-que-nos-van-a-liberar-lrnd/>

<https://www.prensa.com/mundo/unos-150-turistas-secuestrados-por-indigenas-en-peru-fueron-liberados/>

<https://www.infobae.com/america/peru/2022/11/04/loreto-turistas-son-retenidos-por-comuneros-de-cuninico-en-protesta-por-inaccion-del-gobierno-ante-derrame-de-petroleo/>

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