

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

ISCO EXECUTIVE COMMITTEE

President, Secretary General & Vice-Presidents

- Nominee for an Acting President (TBA)
- Mr Neil Marson, Secretary General (UK)
- Mr John McMurtrie, VP and Editor (UK)
- Ms Mary Ann Dalgleish, VP M'ship (USA)

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- Mr Kerem Kemerli (Turkiye)
- Mr Marc Shaye (USA)
- Mr Dan Sheehan (USA)
- Captain Bill Boyle (UK)
- Lord Rickaby (UK)
- Mr Matthew Sommerville (UK)

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- Dr Timothy Gunter (USA)
- Mr Flavio P. de Andrade (Brazil)
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- Mr John McMurtrie (UK)
- Ms Mary Ann Dalgleish (USA)
- Captain Bill Boyle (UK)
- Mr John Wardrop (Australia)
- Mr Marc Shaye (USA)
- Mr Michael Watson (UK)

HEADLINE INTERNATIONAL NEWS

PLEASE CLICK ON THE BANNER BELOW FOR MORE INFORMATION



USA: NOAA OR&R RESPONDS TO HURRICANE IAN DESTRUCTION



Above: Map: An example of identified targets (potential pollution sources) in southwest Florida. Image credit: NOAA. Inset: Field assessment teams document stranded vessels. Image credit: U.S. Coast Guard

October 18 - Since Sept. 26, 2022, pollution support teams from NOAA's Office of Response and Restoration have been responding to and initiating recovery efforts in Florida and South Carolina for Hurricane Ian—a storm that left a path of destruction with damaging winds, severe flooding, and life-threatening storm surge.

Prior to the arrival of Hurricane Ian in Florida, OR&R's Emergency Response Division embedded a NOAA scientific support coordinator in the U.S. Coast Guard Area Command in Miami, Florida, to pre-identify natural resources that would be sensitive to debris and pollution. (The Area Command oversaw operations for all Coast Guard units throughout Ian's impact area from Florida through South Carolina.)

Currently, OR&R is tasked with supporting the Coast Guard's post-disaster pollution assessment as part of the Hurricane Ian Marine Environmental Response Incident Management Team, primarily based in the U.S. Coast Guard Sector St. Petersburg Federal On-Scene Coordinator Zone. The objective of this assessment is to identify locations of oil and hazardous material releases or debris posing threats to life, safety, the environment, and/or maritime transportation systems, and to provide, update, and maintain that data. NOAA OR&R / [Read the complete report](#)

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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Click on the link -

<https://www.facebook.com/groups/388528312842431>

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ISCO NEWS

ISCO NEWS

ISCO WELCOMES NEW MEMBERS

ISCO welcomes new members who have joined recently, up to the end of September 2022. Some recent applications await processing and names will be added later.

NEW PROFESSIONAL MEMBERS

Mr Stephen Guy has upgraded to become a new Professional Member (FISCO). Stephen is the Senior Auditor (Onshore) with the International Spill Accreditation Scheme (ISAS).

NEW CORPORATE MEMBER

Marterra Oil Spill & Environment – This company, based in Mexico, has the mission “To prevent and control offshore and onshore pollution events involving hydrocarbons and hazardous substances with an efficient and effective intervention. Besides providing strategic leadership when managing environmental crises”.

NEW INDIVIDUAL MEMBERS

Hosam Ahmed Majdoub (Libya)

Michael Watson (UK)

Dr Ahmed Elwan (Oman)

Steve Raaymakers (Australia)

NEW STUDENT MEMBERS

Zheng Wang (Canada)

Mrt Asime Oba (Nigeria)

Miss Narita Ramirez (USA)

Christopher Cotter (USA)

Dominic Vargas (USA)

Miss Emma Whitten (USA)

Joshua Garcia (USA)

Jonathan Blasingame (USA)

Miss Ayse Tuna Issever (Turkey)

Laci Bryant (USA)

Lee Britton (Canada)

Mr Bassey Okon Bassey (UK)

Conner Guidry (USA)

Ms Denise Ortiz (USA)

Miss Phoebe Childress (USA)

Miss Ally Wilkins (USA)

Felix Leger (USA)

Hayford Fiberesima (Nigeria)

Yvonne Sheasby (USA)

MEMBERS MEETING FOR OCTOBER 2022

All Members, including Volunteers and Student Members – Please note that our monthly Zoom Meeting is scheduled for Thursday 27th October at the usual time – 3 pm Detroit time or 7 pm GMT, 8 pm BST or the equivalent time in your own time zone.

The link for joining the meeting is –

<https://us02web.zoom.us/j/86582066910>

There is no set agenda but one item that will be discussed is an important one relating to the implementation of our Action Plan which was approved in July 2022

Mike Watson has introduced a new communications platform that looks like it will have good potential to help us move forward, especially with improved organisation of our Working Groups (WGs).

He has created a short video introduction that you can watch at –

<https://www.youtube.com/watch?v=vQw6Tr9VksG>

Please make a point of watching Mike's video before joining the meeting

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spillcontrol@mwadigital.com**

ISCO Secretary-General, Neil Marson, has advised that he is happy to support the Basecamp Platform based on Mike's advice on suitability.

Subject to a satisfactory trial and everyone understanding how to use it correctly, this will help overcome some of the difficulties we are having in implementing important parts of our Action Plan.

A previous attempt with another platform (Chanty) was a dismal failure, partly because no one understood what they were supposed to do. We are very hopeful that Basecamp will be a much better answer. Some work will be needed to ensure it's set up to meet the needs of all current and future WGs and to provide easy to understand working instructions.

It should also permit the delegated oversight persons to monitor progress on achievement of WG targets.

The general idea is the members of each of the WGs will have a dedicated and easily accessed space where they where they can post and share their thoughts, suggestions and recommendations they would like to make to the Secretariat and Executive Committee.

Using the new platform should be a much better way of working than using multiple exchanges of emails, some of which get lost and make effective sharing of information between WG members very difficult. Another big advantage is that it's easy to review progress because WG member posts are grouped together in one place. No need to waste time searching through large numbers of historic emails to look again at earlier postings made by WG colleagues.

If successful this development will be an important step in the implementation of our Action Plan, improving the support we provide for our members and making necessary changes to the ways that ISCO is organised and managed in order that we can operate in a more sustainable way.

More information on the use of the platform will be published in the next ISCO Newsletter.

INTERNATIONAL & REGIONAL NEWS

FIRST STOCKTAKING MEETING OF THE GEF-UNEP MEDPROGRAMME

October 17 - The GEF-UNEP MedProgramme's Annual Stocktaking Meeting (ASM) will be held on 2-3 November 2022 in Athens, Greece. "Assess – Synergize – Move forward" is the slogan chosen for the meeting. The MedProgramme Coordination Unit, which is hosted by the Mediterranean Action Plan of the UN Environment Programme (UNEP/MAP), the MedProgramme's lead executing agency, is organizing this first edition of the ASM in cooperation with the implementing agencies and executing partners of the eight MedProgramme Child Projects.

The ASM will bring together representatives of beneficiary countries (Albania, Algeria, Bosnia and Herzegovina, Egypt, Lebanon, Libya, Montenegro, Morocco, Tunisia and Türkiye) and other stakeholders for an in-depth review of progress in the implementation of the "Mediterranean Sea Programme: Enhancing Environmental Security" (MedProgramme) UNEP / [Read more](#)

EMSA: PRELIMINARY MARKET CONSULTATION - QUESTIONNAIRE ON OIL SPILL VOLUME ESTIMATION BASED ON SATELLITE IMAGES FROM SENTINEL-2

October 18 - The objective of this preliminary market consultation is to enable EMSA to gather more in-depth knowledge of the market structure, proven technical solutions and players related to the provision of a service which includes oil spill volume estimations based on optical images from Sentinel-2 and detection of the source, under the conditions defined in the guiding principles established in this document. For that purpose, EMSA invites interested Earth Observation (EO) economic operators to respond to the questionnaire in the Annex.

Subsequently, and dependent on the results of this preliminary market consultation market consultation, the Agency may decide to procure a service that provides satellite-based oil spill volume estimations, particularly in case of maritime emergency or large accidental spill at sea.

The oil spill volume estimation service, including detection of the source of the spill, will complement the existing CleanSeaNet (CSN) service when there is an emergency related to an oil spill. Further detailed information on the CSN services provided by EMSA can be found at <https://emsa.europa.eu/csn-menu.html> EMSA / [Read more](#)

BIODIVERSITY: EUROPEAN BUSINESS AND NATURE SUMMIT TO PUSH FOR GLOBAL DEAL FOR NATURE AT COP15

October 18 - On 18 and 19 October at the European Business and Nature Summit, European businesses will join the European Commission and partner organisations advocating for an ambitious outcome of the UN Biodiversity Conference COP15. The COP15, which takes place in Montréal in December, will negotiate a Global Biodiversity Framework – essential to safeguard nature and the many ecosystem services we depend on for our health, wellbeing and economy. Today, nearly 1 million species are at risk of extinction globally and nearly 80% of all habitats in Europe are in poor condition. European Commission / [Read more](#)

PEMSEA: INTERVIEW WITH STEPHEN ROSS ON THE STATE OF OCEANS AND COASTS REPORTING

October 18 - Mr. Stephen Adrian Ross was Executive Director of PRF from 2014 to 2017. One of the founding members of PEMSEA, he worked with the organization for 20 years as a Senior Technical Officer for the IMO, and as PEMSEA's Senior Programme Officer and Chief Technical Officer before being appointed Executive Director.

As part of the production of *The PEMSEA Story*, Mr. Ross was interviewed on the topic of State of the Oceans and Coasts (SOC) reports. A regional report for has been developed using data from 2021: *Regional State of Ocean and Coasts 2021: The East Asian Seas Region*, along with a *Supplemental Report*. PEMSEA / [Read more](#)

IPIECA-IOGP LAUNCH UPDATED 'ECONOMIC ASSESSMENT AND COMPENSATION FOR MARINE OIL RELEASES' GUIDANCE

October 20 - Ipieca and IOGP are pleased to publish an update to the Economic assessment and compensation for marine oil releases: good practice guidelines for incident management and emergency response personnel.

A release of oil has the potential to affect property and impair commercial activity, resulting in economic loss. This document considers the effects of oil on the fisheries and tourism sectors, as well as other commercial activities. The sources of money that may be available to compensate for such damages are identified, and the latest legislation and compensation schemes that enable payments are explained.

The document also outlines the methods by which the various types of economic damage can be quantified and calculated under the schemes, and the procedures necessary for submitting claims for losses. IPIECA / [Source document](#)

PROPELLER ANNOUNCES \$100 MILLION FUND TO INVEST IN OCEAN-CLIMATE COMPANIES

October 20 - Unique partnership with Woods Hole Oceanographic Institution and veteran leadership team deploys vital capital to blue economy 'narwhals' at the nexus of ocean innovation, science and technology

Today, Propeller, a climate-tech fund that invests in and builds ocean-climate companies, announced its inaugural \$100 million fund to support founders looking to address the climate crisis by advancing planet-saving, ocean-based science and technology solutions.

Propeller is bolstered by a world-class leadership team – including Brian Halligan, Co-founder and Executive Chairperson of HubSpot, Devdutt Yellurkar, General Partner at CRV, climate scientist and oceanographer Dr. Julie Pullen, ocean investor and entrepreneur Reece Pacheco, and Steven Fox, international business builder and investor. Collectively, they bring a wealth of business acumen and decades of investment expertise to Propeller aimed at catalyzing growth of the \$2.5 trillion blue economy. WHOI / [Read more](#)

NEWS REPORTS FROM AROUND THE WORLD

CANADA: SOPF - IMPORTANT STEP TAKEN TO HANDLE HIGH NUMBER OF CLAIMS IN THE EVENT OF A MAJOR SHIP-SOURCE OIL SPILL INCIDENT

October 20 - We are proud to announce that we have taken a concrete step to increase our capacity to handle a high number of claims, in the event of a major ship-source oil spill in Canadian waters. This crucial step was formalized by signing an agreement with the International Group of P&I Clubs (IGP&I). This agreement will improve our cooperation and collaboration with the IGP&I, to assist Canadian claimants in times when they need it most.

But first, we would like to provide some background - In Canada, the polluter pays. The shipowners and their insurers are responsible for the damages resulting from a spill. The IGP&I provides insurance coverage to around 90% of the international world fleet.

While the ships covered by the IGP&I are generally safe, a major spill could have devastating impacts on Canadians and our coasts.



Above: Signature of the agreement by Tony Paulson from the IGP&I and Anne Legars, Administrator of the Fund. Photo courtesy of SOPF and iG P&I

Here are four highlights of this key agreement:

A more fluid and efficient compensation process for claimants. Our organizations will join efforts to provide a clear and efficient compensation process to support claimants in their need to access compensation. If necessary, a joint claim office will be set up.

Better communications with the public. Immediately after a major ship-source oil spill incident, the Fund and the IGP&I will issue a joint notice. It will provide a single point of contact to claimants. This will avoid confusion and give reassurance that our organizations will work together to provide compensation. Together, we will then follow up with precise information on the steps to follow to submit a claim.

Making it easier to submit a claim. Only one claim package can be submitted to both organizations. This means less paperwork and a smoother process for claimants. This will also stop the clock on the submission deadline for both organizations. If some damages can be compensated only by the Fund, the claim will be redirected seamlessly to us.

Clearer picture of what is going on soon after a major incident. The Fund and the IGP&I will share some resources and expertise to collect information and real time analysis. It will allow us to know more rapidly what is happening on the ground and the type of claims to expect. This practice will allow resources to be used more efficiently and avoid duplication of effort. SOPF / [Source doc.](#)

CHILE: LAUNCH OF THE ASSOCIATION OF LATIN AMERICAN GRADUATES OF THE WORLD MARITIME UNIVERSITY "LATAMA"

October 13 - This new association seeks to maintain the professional and academic link of students with the University, after graduating, for future activities, in the areas of maritime safety, protection of the aquatic environment and implementation of international maritime regulations.

On Friday, October 7, at the Sasakawa Auditorium of the WMU World Maritime University, in Malmö (Sweden), the launch ceremony of the "Latin American Alumni Association" (LATAMA) was held. The activity was headed by the president of the educational campus, Dr. Cleopatra Doumbia-Henry and was attended by Professors, Staff, students of the Master and PhD programs taught at the University and the virtual participation of more than 25 graduates representing Argentina, Brazil, Bolivia, Chile, Colombia, Ecuador, Guatemala, Nicaragua, Mexico, Panama, Peru and Venezuela. Armada de Chile Directemar / [Read more](#)

DENMARK: MUDP PROJECT TO DEVELOP EFFECTIVE PFAS CLEANING

September 30 - MUDP-funded project will develop a cheap and climate-friendly method for cleaning drainage water from landfills of PFAS substances. The company Vandrensning.Com ApS, Aquarden Technologies ApS, the Danish Technological Institute and a number of other partners are developing a relatively cheap and climate-efficient method for purifying the water that seeps through landfills for PFAS. MST Denmark / [Read more](#)

NIGERIA: MORE INTERNATIONAL OIL COMPANIES WILL LEAVE NIGERIA—NUPRC

October 19 - The Nigeria Upstream Petroleum Regulatory Commission (NUPRC) has warned that more international oil companies (IOCs) operating in Nigeria are going to divest from onshore oil and gas assets.

It also pointed out that this would lead to job losses in the oil sector but called on indigenous oil companies to take advantage of this to recruit professionals and grow in-country capacity.

Speaking at the Energy and Labour Summit of the Petroleum and Natural Gas Senior Staff Association of Nigeria (PENGASSEN) in Abuja on Tuesday, the chief executive of NUPRC, Mr Gbenga Komolafe, stated that this is due to poor earnings caused by the massive crude oil theft across the country. [Business Post / Read more](#)

USA: LATEST NEWS REPORTS FROM NOAA OR&R

October 17 – Please click on the links below to download and read the latest news reports from NOAA OR&R

Public Meeting and Call for Restoration Projects for Huntington Beach Pipeline Spill in California

Approximately one year ago on Oct. 1, 2021, the Pipeline P00547 (Huntington Beach) oil spill occurred in Southern California. An underwater pipeline running from Platform Elly to Long Beach spilled an estimated 25,000 gallons of crude oil into San Pedro Bay.

Responders and Planners Learn Spill Science in the Mid-Atlantic

With a team of instructors led by Scientific Support Coordinator Frank Csulak, NOAA's Office of Response and Restoration hosted a Science of Oil Spills class in the mid-Atlantic region the week of Sept. 12, 2022.

2023 Marine Debris Calendar Now Available and Annual Marine Debris Art Contest Now Open

On Oct. 6, the NOAA Marine Debris Program, within the Office of Response and Restoration, proudly announced that the 2023 Marine Debris Calendar is now available for download!

New Guidance Supports Those Responding to Oiled Sea Turtles

OR&R's Emergency Response Division recently completed an update to the guide book, Oil and Sea Turtles: Biology, Planning, and Response.

Facilities Tour Highlights International Collaboration between NOAA and Korea Institute of Ocean Science and Technology

Following the 7th International Marine Debris Conference, held Sept. 19-23 in Busan, South Korea, NOAA Marine Debris Program Chief Scientist Amy V. Uhrin was invited to tour the facilities at the Korea Institute of Ocean Science and Technology's South Sea Research Institute on Geoje Island, South Korea.

Kick-off Workshop at Great Lakes Center of Expertise

Sept. 21-22, 2022 marked the inaugural workshop welcoming the establishment of the U.S. Coast Guard National Center of Expertise for the Great Lakes. The workshop convened NCOE stakeholders who shared information about current research projects, identified research gaps, and prioritized opportunities to advance oil spill response capabilities in the Great Lakes.

Students Learn about Marine Debris in Alaska through NOAA Live! Webinar Series Presentation

On Sept. 27, the NOAA Marine Debris Program Alaska Regional Coordinator Peter Murphy presented as part of a NOAA Live! webinar titled "Keeping Alaska's Coastline Clean: What You Can Do about Marine Debris in Your Community."

Statewide Stakeholders Come Together for Virginia Marine Debris Summit

From Sept. 27-28, the NOAA Marine Debris Program (MDP), within the Office of Response and Restoration, participated in the Virginia Marine Debris Summit hosted in Virginia Beach, Virginia. This gathering brought together local, state, and federal marine debris and plastic pollution experts in focused discussion around tackling the challenges of consumer debris throughout the commonwealth.

USA: PRESIDENT BIDEN'S BIPARTISAN INFRASTRUCTURE LAW TO CONSERVE ECOSYSTEMS, CLEAN UP LEGACY POLLUTION SITES ACROSS THE COUNTRY

October 18 - The Department of the Interior today announced nearly \$10 million from President Biden's Bipartisan Infrastructure Law for 17 project sites to address legacy pollution and conserve ecosystems. These new awards are part of a [\\$68 million investment](#) made earlier this year.

"President Biden's Bipartisan Infrastructure Law is the largest investment in cleaning up legacy pollution in American history," said **Secretary Deb Haaland**. "At the Department of the Interior, we are using every tool at our disposal to support multiple programs to clean up these legacy environmental hazards, advance environmental justice, support good paying jobs, and safeguard our lands for future generations."

NEWS REPORTS FROM AROUND THE WORLD (CONTINUED)

The announcement comes during the Interior Department's "Legacy Pollution Week," an opportunity to honor the work that has been done, and the opportunities ahead. Millions of Americans nationwide live within just one mile of an abandoned coal mine or orphaned oil and gas well. Today's announcement is in addition to \$1.15 billion in fiscal year 2022 funding that will be allocated to states to [clean up orphan oil and gas wells](#) and \$725 million to be allocated to states to [clean up abandoned mine lands](#).

US Dept. of the Interior / [Read more](#)

NEWS FROM ISCO MEMBERS

Corporate Members of ISCO can by submitting news about new products and services in the "News from ISCO Members" section of the ISCO Newsletter.

This is a FREE facility for Members. Given that the ISCO Newsletter has a large and highly targeted readership in over 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

Oil Spill Response Strategies & Tactics Training

March 7-10, 2023
Ohmsett | Leonardo, New Jersey

Ohmsett in partnership with Texas A&M University National Spill Control School, announces the hands-on training course you simply cannot afford to miss!



During the 3 ½ days of training, you will learn the strategies and tactics for successful spill response operations.

Course Topics:

- Hands-on skimming exercises in the Ohmsett tank
- Factors affecting oil spill movement
- Fates & effects of spilled oil
- Oil skimmer & containment boom selection & use
- Booming & recovery strategies
- Site safety planning
- Incident Command System (ICS)
- Alternative response techniques
- Shoreline Characterization (Introduction to SCAT)
- And More!

[Register](#)

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/>

THAILAND: CHULA LAUNCHES "MICROBES TO CLEAN MARINE OIL SPILL BIOPRODUCTS"

October 3 - Chula Faculty of Science has developed bioproducts to clean up marine oil spills from a research on oil-eating microbes while getting ready to expand to industrial-scale production for ecological sustainability.

Major marine oil spills that leave residual pollutants have detrimental effects on the economy, tourism, as well as the marine environment in the long run. One solution is oil-eating microbes bioproducts developed with clean technology by the Center of Excellence in Microbial Technology for Marine Pollution Treatment, Department of Microbiology, Faculty of Science, Chulalongkorn University, under the supervision of Associate Professor Dr. Onruthai Pinyakong.

For more information, visit <https://www.chula.ac.th/en/highlight/84839/> CISION / [Read more](#)

JOHANNITER COMBATS POLLUTION WITH VSTEP'S MARITIME SIMULATOR

October 11 - In June 2022, to raise awareness of marine pollution and train the offshore and shoreline response to marine incidents, a European consortium led by Johanniter-Unfall-Hilfe e.V. Germany made use of the maritime module in VSTEP's Response Simulator. The consortium will be using it as the contractor of the European Commission at the discussion-based EU MODEX on Marine Pollution.

As a result of Johanniter and VSTEP's collaboration, Johanniter purchased Response Simulator with maritime module from VSTEP for the exercise in February and March 2023. For this event, they will be using VR, showcasing how the environment will be affected by ship collisions and oil spills. Hence, the people in charge can be trained to make the right decisions to contain and combat it timely. The Maritime Executive / [Read more](#)

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.

181 Shallow infaunal responses to the Deepwater Horizon event: Implications for studying future oil spills

Berke, S.K., Dorgan, K.M., Kiskaddon, E., Bell, S., Gadeken, K., Clemo, W.C., Keller, E.L., Caffray, T.
(2022) *Frontiers in Environmental Science*, 10, art. no. 950458,
DOI: 10.3389/fenvs.2022.950458

ABSTRACT: Infaunal sedimentary communities underpin marine ecosystems worldwide. Understanding how disturbances such as oil spills influence infauna is therefore important, especially given that oil can be trapped in sediments for years or even decades. The 2010 Deepwater Horizon (DWH) event was the largest marine oil spill in United States history, impacting habitats throughout the Northern Gulf of Mexico. We investigated infaunal community structure at two shallow sites in the Chandeleur Islands, LA, United States, over a 2-year period from 2015 to 2016 (5–6 years post-spill). One site was moderately contaminated with oil from the DWH spill, while the other was only lightly contaminated. Both sites featured patchy *Ruppia* seagrass meadows, allowing us to compare infaunal communities between sites for seagrass versus unvegetated sediment. The moderately-oiled site featured a significantly different community than that of the lightly oiled site; these differences were driven by altered abundance of key taxa, with some taxa being less abundant at the moderately oiled site but others more abundant. During our second year of sampling, a crude oil slick moved transiently through the moderately-oiled site, allowing us to directly observe responses to an acute re-oiling event. Virtually every taxonomic and community-level metric declined during the re-oiling, with effects more pronounced in seagrass beds than in unvegetated sediment. The sole exception was the snail, *Neritina usnea*, which we found exclusively at the more-oiled site. Our observations suggest that oil responses are driven more by key taxa than by entire guilds responding together. By identifying the families and genera that showed the largest signal at this pair of sites, we can begin laying groundwork for understanding which benthic taxa are most likely to be impacted by oil spills, both in the immediate aftermath of a spill and through longer-term contamination. While more studies will certainly be needed, this contribution is a step towards developing clear a priori hypotheses that can inform future oil-spill work. Such hypotheses would help to focus future sampling efforts, allowing resources to be directed towards those taxa that are most likely to be responding, and which are potential bio-indicators of oil exposure.

182 Water Accommodated Fraction of Macondo Oil Has Limited Effects on Nitrate Reduction in Northern Gulf of Mexico Salt Marsh Sediments Regardless of Prior Oiling History

Tollette, D.G., Mortazavi, B., Tatariw, C., Flournoy, N., Sobecky, P.A.
(2022) *Water, Air, and Soil Pollution*, 233 (8), art. no. 310,
DOI: 10.1007/s11270-022-05688-5

ABSTRACT: Coastal marshes provide valuable ecosystem services including the removal of excess nitrogen (N) prior to reaching coastal waters. Crude oil contamination can disrupt N cycling processes, and while the impacts of crude oil on marsh structure and function are well studied, less is known about the effects of different oil components. The objective of this study was to determine how water accommodated fraction (WAF) of oil impacts marsh sediment N cycling capacity from three marshes with differing characteristics. One site was previously oiled following the Deepwater Horizon (DWH) oil spill while the other two sites had no known history of oil spills. We measured 16S rRNA gene composition from sediments collected from each marsh then conducted a laboratory incubation experiment on sediments treated with different concentrations (0%, 25%, 100%) of WAF. The DWH impacted site had a lower number of observed microbial taxa and lower Chao1 diversity, but a higher relative abundance of putative hydrocarbon degraders compared to the other sites. While there was no treatment effect of WAF on sediment denitrification, denitrification potential rates were 2.4 ×

higher in the DWH impacted sediment compared to the other sites. There were no differences in dissimilatory nitrate reduction to ammonium (DNRA) potential rates across sites, but 100% WAF treatments increased rates nearly twofold at one of the unoiled sites. These results suggest oil contamination alters the microbial community structure and impacts N cycling processes in salt marsh sediments.

183 Using satellite-based AOD and ground-based measurements to evaluate the impact of the DWH oil spill on coastal air quality

Montas, L., Roy, S.S., Ferguson, A.C., Mena, K.D., Kumar, N., Solo-Gabriele, H.M.
(2022) *Marine Pollution Bulletin*, 181, art. no. 113910,
DOI: 10.1016/j.marpolbul.2022.113910

ABSTRACT: The 2010 DWH disaster generated atmospheric pollutants of health concern which reached the Gulf Coast. This study evaluated whether changes in coastal air quality due to the disaster were captured by aerosol optical depth (AOD) estimated using satellite data and by ground-based monitoring of air pollution, including fine particulate matter $\leq 2.5 \mu\text{m}$ in aerodynamic diameter (PM_{2.5}), benzene and naphthalene. Mean monthly AOD levels were higher in May 2010 [during oil spill time], (mean AOD = 0.355), than for the prior (mean AOD = 0.258) and following years (mean AOD = 0.252) ($p < 0.05$). PM_{2.5} concentrations and AOD were significantly correlated ($R^2 = 0.59$, $p < 0.05$), for one study area. Elevated PM_{2.5}, benzene, and naphthalene concentrations coincided with downwind directions from the location of the oil slicks. A fully-coupled oil fate and transport atmospheric transport model of oil spill emissions, integrated with AOD and more extensive ground-based measurements, is recommended to predict coastal population exposures during oil spills.

184 Was the decline of saltmarsh tabanid populations after the 2010 oil spill associated with change in the larval food web?

Husseneder, C., Bhalerao, D.R., Foil, L.D.
(2022) *Ecosphere*, 13 (7), art. no. e4157,
DOI: 10.1002/ecs2.4157

ABSTRACT: Horse flies of the species *Tabanus nigrovittatus* and *Tabanus acutus* are native to coastal marshlands. Their larvae are apex invertebrate predators, and their development is dependent on the food web in the marsh sediment. Surveillance of *T. nigrovittatus* after the 2010 Deepwater Horizon Oil Spill in the Gulf of Mexico showed population crashes of adult flies in southeast Louisiana marshes near oil landfall, but not in southwest Louisiana where oil did not reach. Sediment collection in 2011 from Louisiana marshes showed a near-complete absence of larvae in the southeast yet high numbers in the southwest. We hypothesized that oil contamination destroyed critical components of the larval food web and/or residual toxicity led to larval death. We used 18S rRNA gene metagenomics to identify components of the food web in larval guts and sediment from southeast and southwest Louisiana marshes. Sediment oil contamination, biochemistry, and toxicity could not explain the lack of larvae in the southeast, because oiling at our high-tide mark sites was low at the time of the study and toxicity was independent of sediment biochemistry. Hexapods were the main food web components in tabanid larval guts. Abundance of stink bug, vinegar fly, and mosquito species in the sediment was positively associated with the presence of larvae. However, these taxa were enriched in southeastern (near oil) versus southwestern (unoiled reference) sediment, and thus, lack of major food web components due to oiling could not explain lack of larva in the east. We conclude that the immediate crash in adult populations in oiled regions was the main cause for the absence of larvae the following year. While most saltmarsh arthropod groups had rebounded within a year after the oil spill, recovery of saltmarsh horse flies was ongoing for 5 years.

185 Determination of Polycyclic Aromatic Hydrocarbons in Seafood by PLE-LC-APCI-MS/MS and Preliminary Risk Assessment of the Northeast Brazil Oil Spill

de Melo, A.P.Z., Hoff, R.B., Molognoni, L., Kleemann, C.R., de Oliveira, T., de Oliveira, L.V.A., Daguer, H., Barreto, P.L.M.
(2022) *Food Analytical Methods*, 15 (7), pp. 1826-1842.
DOI: 10.1007/s12161-022-02252-z

ABSTRACT: In 2019, a vast oil spill reached more than 4,000 km of the Brazilian coast, leading to an urgent action, which included the assessment of seafood safety from the affected areas. The aim of our study was the development, optimization, validation, and application of a fast, sensible, and reliable method to determine eight polycyclic aromatic hydrocarbons in seafood. The sample preparation was based on pressurized liquid extraction using a hard cap coffee machine and subsequent quantitation by liquid chromatography coupled to tandem mass spectrometry with atmospheric-pressure chemical ionization source (LC-APCI-MS/MS). The method performance was verified in accordance to the Commission Decision 2002/657/EC in terms of selectivity, linearity ($R^2 > 0.95$), precision (CV $< 21\%$), accuracy (75–115%), decision limit, and detection capability. The analytical limits were set to 0.9–1.25 $\mu\text{g kg}^{-1}$ (limits of detection) and 1.25–5.00 $\mu\text{g kg}^{-1}$ (limits of quantitation). The method was applied to more than a hundred of seafood samples. Concentrations of benzo[a]anthracene, chrysene, benzo[b]fluoranthene, benzo[k]fluoranthene, benzo[a]pyrene, dibenzo[a,h]anthracene, benzo[ghi]perylene, and indene[1,2,3-cd]pyrene ranged from $< \text{LOQ}$ to 156 $\mu\text{g kg}^{-1}$. Benzo[a]anthracene (41.7%), benzo[a]pyrene (41.7%), and benzo[b]fluoranthene (37.5%) were the most frequent PAH, ranging from $< \text{LOQ}$ to 113 $\mu\text{g kg}^{-1}$. The analyzed samples showed PAH concentrations below the concern levels established by the Brazilian regulatory agency and below the limits established by European Union. Risk assessment was performed to evaluate the daily dietary intake of seafood and

RECENT INTERESTING PEER-REVIEWED OIL SPILL PUBLICATIONS (CONTINUED)

the carcinogenic potential of the measured levels, based on Brazilian seafood consumption profile, PAHs levels, and toxicity equivalent factors.

186 Marine Sponges in a Snowstorm – Extreme Sensitivity of a Sponge Holobiont to Marine Oil Snow and Chemically Dispersed Oil Pollution

Vad, J., Duran Suja, L., Summers, S., Henry, T.B., Roberts, J.M.
(2022) *Frontiers in Microbiology*, 13, art. no. 909853,
DOI: 10.3389/fmicb.2022.909853

ABSTRACT: Holobionts formed by a host organism and associated symbionts are key biological units in marine ecosystems where they are responsible for fundamental ecosystem services. Therefore, understanding anthropogenic impacts on holobionts is essential. Sponges (Phylum Porifera) are ideal holobiont models. They host a complex microbial community and provide ecosystem services including nutrient cycling. At bathyal depths, sponges can accumulate forming dense sponge ground habitats supporting biodiverse associated communities. However, the impacts of spilled oil and dispersants on sponge grounds cannot be understood without considering exposures mediated through sponge filtration of marine snow particles. To examine this, we exposed the model sponge *Halichondria panicea* to oil, dispersant and “marine oil snow” contaminated seawater and elucidate the complex molecular response of the holobiont through metatranscriptomics. While the host response included detoxification and immune response pathways, the bacterial symbiotic response differed and was at least partially the result of a change in the host environment rather than a direct response to hydrocarbon exposure. As the sponge host reduced its pumping activity and internal tissue oxygen levels declined, the symbionts changed their metabolism from aerobic to anaerobic pathways possibly via quorum sensing. Furthermore, we found evidence of hydrocarbon degradation by sponge symbionts, but sponge mortality (even when exposed to low concentrations of hydrocarbons) implied this may not provide the holobiont with sufficient resilience against contaminants. Given the continued proposed expansion of hydrocarbon production into deep continental shelf and slope settings where sponge grounds form significant habitats it is important that dispersant use is minimised and that environmental impact assessments carefully consider the vulnerability of sponge holobionts.

CONTRIBUTED ARTICLE

TRAINING EXERCISES SUMMARY (ESCI 6130)

An article by Nin Gan (MARB PhD candidate), Texas A&M University, Corpus Christi, USA

On October 09, 2022, 17 Texas A&M University – Corpus Christi students (15 undergraduate, 2 graduate) completed the field portion of the 40-hour course in Marine Oil Spill Response as part of the National Spill Control School. Led once again by the duo Erin Mueller and Joshua Martin, the field exercise began at 8:00 AM on Saturday October 08, 2022, with a classroom briefing by Dr. Timothy Gunter on the potential risks that could complicate both boom-deployment and safety of the response workers. By 10:00 AM, the buoys and booms had been assembled at the Corpus Christi Marina and the students were on the water by 10:30 AM. The students drove through a 4-buoy slalom course while towing 50 feet of boom and watching for shrimp boats and jet skis. At one point, a small vessel was spotted drifting toward the line of buoys, and when asked to vacate, the boat operators verbally signaled their distress – a failed propellor. Joshua Martin quickly sprang into action and offered a tow back to the dock, demonstrating the type of seamanship and dedication to boating safety that validates TAMU-CC’s reputation as a harbor resident.



Students demonstrating proper boom deployment



Biodegradable peat moss “mock-spill” being collected by the U-boom configuration

Day two’s exercise consisted of booming off the resident vessel of the Bay Yacht Club. Three teams were assembled including two boat crews and the shore crew. Equipped with walkie-talkies, the three teams communicated the process of encircling the 80-ft yacht with boom, first tying off both ends, and then skillfully pulling the boom into formation and anchoring down the final configuration. A steady incoming current proved challenging to maintaining the proper containment shape on the stern, but the mission was largely a success. Sadly, not everyone ended the day with such fortune. Concurrent to the exercise, Coast Guard crews buzzed back and forth through the air to assist a fishing vessel that had been taking on water 3-miles from the harbor. This incident reminds us that incidents at sea are real and do occur and demonstrates the importance of the Incident Command System for first responders.

This semester of fall 2022, 25 certificates were awarded to TAMU-CC students of various majors including environmental science and marine biology, continuing the tradition of equipping our young generation with the education and hands-on experience in spill prevention and response measures, contributing to overall community preparedness each year. For more information on the TAMU-CC National Spill Control School and courses offered, Dr. Gunter may be reached at timothy.gunter@tamucc.edu.

Thanks to Nin Gan and Dr Tim Gunter for submitting this article.



ESCI 6130 class of FA 2022!

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

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/>

TECHNICAL SUPPORT

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CARGO

Liquid cargo | Solid bulk cargo | Other cargo information

LIQUID CARGO DATABASE

Overview

The information in the liquid cargo database aims at providing an easy-to-use guideline and reference tool primarily for shore-side staff and for seafarers on board tankers, supplementing the relevant Conventions, Codes and supplementary guidance published by the International Maritime Organization (IMO) and is intended for use solely as a reference tool providing general information relating to the most commonly transported liquid cargoes.

CH03 | D000-CARGO

DICHLOROMETHANE

Liquid cargo related information

- Carriage of nitrogen-rich fuels and their blends
- Stowage of cargo tanks - oil tankers and chemical tankers

LIQUID CARGO OF THE MONTH

BIMCO LIQUID CARGO DATABASE

October 13 - The BIMCO Liquid Cargo database is intended for use by for shore-side staff and to some extent for newcomers on board tankers and should only be used as a reference tool providing brief information regarding the about 270 of the commonly transported liquid cargoes including Dichloromethane.

The [BIMCO Liquid Cargo Database](#) contains information on some 270 cargoes, all updated to the IBC Code 2021 amended requirements, but in order to ensure that the BIMCO Liquid Cargo Database information is kept updated, we highly welcome any feedback in the form of comments, response, information or data regarding a specific cargo. BIMCO / [Read more](#)

IMPROVING COMMUNICATIONS FOR INCIDENT RESPONSE AND OPERATIONS

October 20 – A solution designed specifically for critical event management (CEM) provides a single, integrated system for managing incident communication and response capabilities. A comprehensive CEM system helps agencies improve processes and communications across a range of response functions, including incident coordination, commander awareness, mass notifications, information uploads from field personnel and records management.

Everything in one place. When deployed as a single, central system, a CEM solution helps agencies improve and accelerate response efforts, make better use of personnel and resources, streamline operations, and avoid information redundancy. Users work more efficiently when they create, access and update incident response plans — along with the associated documents, data, images and video — in one central system. A central CEM system also supports secure integration with workflows from a government's general collaboration and business applications to streamline processes. Ereupblic / [Read more](#)

UPCOMING EVENTS

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NEWLY ADDED TO THE UPCOMING EVENTS PAGE

- Croatia - Regional Workshop on Enhancing Oil Spill Preparedness and Response in the Adriatic and Mediterranean Regions 25-27 October 2022, The Ambassador Hotel, Opatija-Croatia [Download the Programme](#)
- HalenHardy Webinar – Spill Preparedness at Multiple Sites, 16th November 2022

RECENTLY ADDED TO THE UPCOMING EVENTS PAGE

- 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

CROATIA: REGIONAL WORKSHOP ON ENHANCING OIL SPILL PREPAREDNESS AND RESPONSE IN THE ADRIATIC AND MEDITERRANEAN REGIONS – 25th to 27th OCTOBER, 2022

The Mediterranean Oil industry Group (MOIG), the Adriatic Training and Research Centre for Accidental Marine Pollution Preparedness and Response (ATRAC) and JANAF are very pleased to announce that the Regional Workshop on Enhancing Oil Spill Preparedness and Response in the Adriatic and Mediterranean Regions; will be held from 25 to 27 October 2022; at the Ambassador

The main objectives of this workshop will be to reinforce and develop Sub-Regional contingency plans, to stay abreast of the newest technologies, to benefit from responders & manufactures technical expertise as well as to share information on lessons learned and best practices of the previous exercises. This event will host representatives from relevant stakeholders in Croatia , oil and gas

MESSAGES FROM EVENT ORGANISERS (CONTINUED)

Industry, responders, manufacturers, National and International organizations, academics, experts, consultants and HSSE Engineers and will be a good opportunity to exchange

ideas, to improve knowledge and skills on oil spill preparedness and response as well as to network and develop new contactsHotel in Opatija-Croatia.

In order to enable MOIG, ATRAC and JANAF to have all logistic arrangements made on time, it would be appreciated; if you could click the following link to download the [Registration Form](#); complete and return it by Mails to houcine.mejri@moig.org.tn and info@atrac.hr at your earliest convenience.

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

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

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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

EMSA NEWSLETTER FOR OCTOBER 2022

In this issue: EMSA holds in-country open day at Naples Shipping Week; Crises, Challenges & Competitiveness: the three Cs of Maritime CYPRUS 2022; “The Voice of the Industry” this year’s theme at the Malta Maritime Summit; Drawing lessons from navigation accidents involving passenger, cargo & service ships; Equasis efforts to promote maritime safety and quality continue as editorial board gathers in Istanbul; EMSA RPAS crossing borders in support of search and rescue operations; EMSA holds CISE virtual open day and webinar for industry; EMSA participates in fact-finding mission to Montenegro; Accident Investigation bodies further cooperation; EMSA pays visit to on shore power supply project in Malta;

Responding to maritime incidents involving Hazardous and Noxious Substances transported in Bulk; Port State Control Officers gather in Lisbon for refresher seminar; EMSA joins SMM trade fair in Hamburg on theme of “Driving the maritime transition”.
[Download the EMSA Newsletter](#)

FROM THE EMSA NEWSLETTER –

RESPONDING TO MARITIME INCIDENTS INVOLVING HAZARDOUS AND NOXIOUS SUBSTANCES TRANSPORTED IN BULK

Twenty -five participants from 14 EU and EFTA coastal member countries took part in the first exchange-of-experience workshop on “How to respond to maritime incidents involving hazardous and noxious substances transported in bulk (HNS-Bulk)” organised under the CTG MPPR framework.

The workshop was hosted by France at Cedre facilities in Brest on 13-15 September.

The programme was developed by Member State and EMSA experts within the Technical Correspondence Group on HNS (TCG-HNS) under the CTG MPPR work programme and covered key principles and methodological steps for risk assessment and initial response actions to be taken when dealing with maritime HNS bulk incidents.

The idea was to share practical experiences in dealing with HNS incidents and to learn from each other.

Discussions and short group exercises promoted the exchange of expertise and strengthened the networking throughout the three days which were structured around: the basic principles (setting the scene/main challenges/information collection and analysis); the methodological approach (risk/ hazard assessment; initial actions) & table-top exercise; and a practical demonstration by Belgian Civil Protection authorities, divers and firefighters of the French Navy focusing on HNS detection equipment and the presentation of relevant HNS case studies.

USA: NOAA OR&R INCIDENT RESPONSES FOR SEPTEMBER 2022

October 20 - In September 2022, OR&R provided response support to 19 incidents, including 10 new incidents in nine different states. NOAA OR&R / [Read more](#)

Here is the complete list of September's incidents, click on the links to find out more:

- [Mystery Sheen off Old Orchard Beach, ME](#)
- [Lube Oil Spills into Bayou Casotte at Refinery, Pascagoula, MS](#)
- [40-foot Vessel Sunk, Two Harbors, Santa Catalina Island, CA](#)
- [Seaplane Down, Mutiny Bay, Whidbey Island, WA](#)
- [Mystery Sheen, Depoe Bay, OR](#)
- [40-Foot Cabin Cruiser Taking On Water, Tom's Bayou, Valparaiso, FL](#)
- [Towing Vessel Aground, Mile Marker 659, Mississippi River, Helena-West Helena, AR](#)
- [Remnants of Typhoon Merbok Damage Towns and Villages along Bering Sea Coastline, Alaska](#)
- [Anomaly Detected by Satellite West of Point Loma, San Diego, CA](#)
- [Hurricane Ian](#)

EUROPE: FIRST IMAGERY OF BLAST DAMAGE TO THE NORD STREAM PIPELINES

October 18 - Swedish newspaper Expressen has released the first published images of the blast damage to Gazprom's Nord Stream subsea pipeline system.

Using a miniature ROV operated by BlueEye Robotics, Expressen surveyed at least one leak site on the Nord Stream 1 pipeline complex. (The Nord Stream 1 and Nord Stream 2 "pipelines" each have two physical pipes, four in total.)

The brief video clearly shows a splinter of fractured steel peeled away from the pipeline wall, not pushed inwards towards the interior. The line is cleanly severed through its circumference, and a 150-foot section of the four-foot-wide, inch-thick steel pipe was "missing" from the site, according to Expressen. [The Maritime Newsletter / Read more and watch video](#)

INDONESIA: FERRY CAPSIZED, SANK AT BERTH IN KUMAI PORT

October 19 - Passenger ro-ro ship SATYA KENCANA III lost stability, developed list and capsized in Kumai port, Southern Kalimantan, Indonesia, at around 0230 LT (UTC +7) Oct 19. Heavy truck was to roll out to berth, but the ship suddenly listed, with truck adding up momentum to list. 289 passengers left the ship before unloading of vehicles started, ferry arrived from Surabaya. Crew tried to right the ship by managing ballast, but failed. Tugs attempted to hold ferry upright by pulling towlines, and it seems, it only made situation worse. Crew left the ship, she shifted perpendicular to berth, capsized portside and sank, remaining partially above waterline. Video <http://www.maritimebulletin.net/2022/10/19/ferry-capsized-sank-at-berth-indonesia-video/> Maritime Bulletin / [Read more](#) Related report in [The Maritime Executive](#)

BELGIUM: RELIC OF WW2 CONTINUES TO POLLUTE OCEAN WATER

October 19 – A World War II shipwreck is still leaking explosives and other toxic elements into the ocean floor of the North Sea more than 80 years after it was sunk. The wrecks hazardous pollutants continue to impact nearby marine microbiology, as well as the geochemistry of the seafloor according to new research published in the journal Frontiers in Marine Science,

The wreck of the V 1302 John Mahn rests in the Belgian part of the North Sea. MFame / [Read more](#)

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