



N° 315 E – News from September 2022

Emergency response

Cedre's emergency response team received many requests and enquiries in September, both from France and from abroad, relating to various alerts (by the Finistère fire brigade **SDIS 29** in Brest's roadstead, MRCC **Corsica** and **Lagarde**) and for confirmed small-scale spills, by MRCC **Jobourg** in connection with sheen observed on the Bay of Seine, by the **Métropole Toulon Provence Méditerranée** (Var) for a leak of used engine oil that affected a beach in Carquéranne, and by MRCC Corsica for a spill in the bay of Calvi (unknown product from a semi-submerged catamaran that caused sheen across a 2 km-stretch). As concerns inland waters, the duty team received an enquiry from the Seine-et-Marne fire brigade **SDIS 77** relating to the fluorescent green colour of a small stream in Roissy-en-Brie. The source of this contamination, resembling fluorescein, had not been identified and the nature of the product is pending confirmation through analyses. **MAR-ICE** was activated following a request to model the behaviour and drift of a spill in Malta. A response contractor requested advice as well as drift and behaviour modelling in relation to a spill of diesel and hydraulic oil after a crane fell into 25 m-deep waters, at the water intake of a desalination plant in Chile. The Hérault authorities (**DDTM 34**) requested advice on the behaviour of kerosene after a Boeing 737 (freighter) left the runway at Montpellier airport and stopped partly in Manguio saltwater lake with 5 tonnes of kerosene onboard. Ultimately, only a very small quantity of fuel was spilled. The grounding of the bulk carrier **MV OS 35**, after colliding with an LNG tanker as the bulk carrier was exiting the Bay of Gibraltar, was closely monitored by our duty team in order to be able to offer or respond to a possible request for assistance. Indeed, an oil leak soon occurred when a breach appeared in the hull (215 tonnes of LSFO and 250 tonnes of diesel and lubricants on board). Despite the operations implemented – booms laid around the vessel, use of skimmers, bunker fuel removal – strandings of oil on the coast were reported.

Cedre takes part in Sea Tech Week

Sea Tech Week was held from 26 to 30 September in Brest. Cedre ran 2 sessions each composed of 5 conferences. The first session focused on new propulsion fuels and their behaviour in the aquatic environment, as well as spill response and clean-up methods. The second session addressed atmospheric pollution due to the evaporation of HNS spills. In addition to five of its own scientists, Cedre also benefited from the input of its partners for certain conferences, with speakers Thibault Penelon from **Ineris**, Laurent Aprin from **IMT Mine Alès**, Pierre-Yves Foucher from **Onera** and Ludovic Lepers from the **Royal Belgium Institute of Natural Sciences** who kindly travelled to Brest for the event. Cedre also contributed to the full-day session on polar navigation.

Cedre attends 18th European Researchers' Night

On 30 September, **Océanopolis** organised the 18th edition of the **European Researchers' Night**. Cedre ran a stand where visitors could learn about oil, chemicals and litter through fun activities and could talk to Cedre's scientists. Four scientists also took part in talks in the auditorium and "speed dating" sessions. The event was well attended and Cedre was delighted to meet both aspiring and more accomplished scientists!

European project meetings

Cedre received visits from two members of **IMT Mines Alès** to test the "serious game" developed for the **MANIFESTS project**. A representative of **Sea Alarm Foundation** was also at Cedre to discuss the creation of an exercise as part of the **IRA-MAR project**. These concurrent meetings offered the opportunity to create synergies between these two European **DG-ECHO**-funded projects.

In short

Dates for the diary

- ▶ 25 to 28 October: Cedre will be an observer at the **IOPC Funds** plenary meetings in London
- ▶ 10 to 13 October: **RECISO EnviroSpill** in Bahrain
- ▶ 2 to 4 December: Ocean Hackathon® in Brest

Training courses

- ▶ 10 to 13 October: marine pollution crisis management course, at Cedre
- ▶ 10 to 14 October: IMO 2 level course for ISMI in Abidjan, Côte d'Ivoire
- ▶ 10 to 14 October: POLMAR training course followed by an exercise alongside PNE POLMAR-Terre and DDTM Loire-Atlantique, in Guérande (Loire-Atlantique)

4th MANIFESTS project meeting

On 21 and 22 September, Cedre was in Cardiff, Wales to attend the 4th partners meeting of the **MANIFESTS project** (MANaging risks and Impacts From Evaporating and gaseous Substances To population Safety). The aim was to present the progress of each work package and to launch discussions on a possible sequel to the project. Cedre presented the results of the wind tunnel tests. This new experimental tool – developed with strong support from **IMT Mines Alès** – is designed to characterise the impact of wind speed on the evaporation kinetics of chemicals. The results show that these kinetics are affected both by wind speed and temperature, two key parameters to be taken into account in evaporation prediction models. The meeting ended with an excellent announcement: the extension request for the MANIFESTS project has been approved by the European Commission. The project is now set to continue until April 2023, with a constant budget.

1st HNS workshop with EMSA

The first experience exchange workshop organised under **EMSA's** HNS Technical Correspondence Group, which is coordinated by Cedre, was held from 13 to 15 September on the theme "How to respond to maritime accidents involving HNS transported in bulk". The workshop was attended by participants from 14 EU member States as well as representatives of EMSA. It provided the opportunity to lay out some of the fundamentals of the behaviour and risks related to HNS, to organise practical sessions including a tabletop exercise, and to discuss past incidents. A practical demonstration was also organised and was the opportunity to involve different French organisations, including Brest's navy firefighters, the clearance divers unit **GPD Atlantique** and **Ifremer**, as well as the Belgian civil protection. The participants appreciated the organisation of the workshop, during which they were able to share their knowledge and expertise on bulk HNS, their transport and actions that may be implemented in the event of an incident.

Testing buried oil detectors

On the theme of the detection of buried oil slicks on the shoreline, Cedre conducted tests to determine the effectiveness of detectors that could potentially replace poling or core-sampling operations that are generally implemented. This project began with an initial research phase into portable GCMS (gas chromatograph-mass spectrometer) systems that are commercially available. Three devices were selected for the 3-day testing phase. Two oils (one light, one heavy) were buried on Cedre's beach at 3 different depths (10 cm, 60 cm and 130 cm). These tests consisted in determining whether the detectors were capable of detecting the VOC (Volatile Organic Compounds) emitted by the oil at the sediment surface. The results are currently being processed and will be presented in a study report to be released by the end of the year.

Participation in the 7th International Marine Debris Conference

Cedre was invited to Busan, South Korea, for the 7th edition of the International Marine Debris Conference from 18 to 23 September. This conference, organised for the first time outside of the United States, aims to bring together governments, industry, academia, civil society, and all relevant stakeholders, to address the global problem of marine litter and plastic pollution. Cedre presented the litter assessment work conducted on the beaches of the North-east Atlantic which contributes to the preparation of the OSPAR Quality Status Report 2023.

Spill response boom mooring trials in muddy substrates

In September, a team from Cedre, together with the national shoreline pollution expertise cluster **PNE POLMAR-Terre**, conducted mooring trials in muddy sediment. These trials were carried out over 3 days at low tide in Aber Ildut (Finistère) and aimed to measure the hold performance of 5 types of moorings in a muddy bank. Following the trials, better knowledge of the pull-out resistance of moorings in this type of sediment, as well as better identification of the installation constraints, will lead to better choices of boom mooring arrangements for this type of substrate.

Meetings with Mediterranean operators of the aquatic litter monitoring networks

From 6 to 8 September, Cedre travelled to the Mediterranean coast to meet and train several operators within the national shoreline litter monitoring network. The association **Marineland** was trained in order to continue to monitor the Anse Pointe Garoupe site on the Cap d'Antibes peninsula. The **association Explore & Preserve** was trained to monitor the Carbet site, at the southern end of Badine beach in Hyères. Finally, Cedre met with the Marseille-based **association MerTerre**, with which we have been collaborating for several years, to discuss our respective actions relating to litter on the shoreline and in urban networks.

Shrimp meets anode

As part of the **ECOCAP project**, led by **France Energies Marines**, the ecotoxicity of galvanic anodes on shrimp is being studied at Cedre's facilities. The tests aim to assess the impact of anode dissolution on adult shrimp (LC50 test) as well as on juveniles through exposure of berried shrimp. More information about the ECOCAP project is available in the **ECOCAP Newsletter**.

Second training session for OSRL, 13 to 16 September

Cedre ran a second bespoke training session for **OSRL** from 13 to 16 September. In the presence of 2 supervisors, the 12 future members of the response teams at OSRL's Bahrain, Singapore and Southampton bases attended 4 days of practical training covering response on the water, on land and on the shoreline. The various sessions organised all involved the release of real oil, placing the trainees in real-life response conditions. The skills and reflexes the trainees

acquired during this course were then tested during a final exercise, completed independently, during which they had to manage a spill of light oil in one of Cedre's water basins. Various technical discussions were held between the trainers and trainees and interesting collaboration opportunities between our two organisations were broached.

Aquatic litter monitoring site surveys in Normandy

As part of the development of its litter monitoring activities upstream of estuaries, Cedre prospected the banks of the Seine from 20 to 23 September and met with several local stakeholders. Cedre prospected Ile Sainte Catherine, together with **LEESU**, **GIP Seine Aval**, the association **SOS Mal de Seine**, and the **Conservatoire des Espaces Naturels Normands** (responsible for managing the island) in order to identify a site for the national monitoring network for litter from drainage basins. Cedre then met with the **Cellule de Suivi du Littoral Normand** to discuss the monitoring protocol, and with the **Maison de l'Estuaire** to prospect the area they cover. Finally, Cedre took part in the monitoring of the Criqueboeuf beach site as part of the shoreline litter network, together with **CPIE Vallée de l'Orne** and the social and professional integration association **Être et Boulot**.

Observation of a clearance diver exercise

Cedre was invited to observe an exercise organised by the clearance divers unit **GPD Atlantique** at the naval base in Brest. The exercise aimed to recover drums of sulphuric acid after opening a container. Discussions were held on the materials used for the divers' suits, and the compatibility of these materials with different chemicals is to be tested in 2023.

[Unsubscribe from the Cedre Newsletter](#)

Think green - don't print out your emails!

[Legal information](#)

[Contact us](#)