

Proposals for NORMAN Joint Programme of Activities 2024

Title	Stage 2: Marine Monitoring WG 8 – aligning prioritisation and building the Marine Monitoring activity in Norman
Type of activity	
Leader	Fiona, Brendan
Topic / activities	<p><i>The 2023 GA indicated that there is a strong and genuine interest of NORMAN members to address the marine specific issues across many of the WGs and therefore a WG on Marine environment is underway and is planning activities for the next 4 years. As chair I proposed a 5-year roadmap starting in 2023 which we are populating with continued discussion. This plan is underway with some ideas presented at the GA in Frankfurt. We continue to capture the ideas and build new activities from these.</i></p> <p>From the 2023 JPA:</p> <p>Current status and ideas captured:</p> <ul style="list-style-type: none"> • Several meetings were held to develop further the marine environment working group; • The list of summary takeaways from our world Cafes in 2022 and 2023; • Ecotox for marine data is needed - new members in this space; • Existing data on chemical pollution – a systematic approach; • Success stories need to be presented; • Marine mammal ecotoxicology values should be obtained systematically; • Sample data base; • One-stop shop for the data on marine on the Norman website; • Define the environmental compartments - air:water interface is an important area of work in collaboration with the PS group (Bran and Brendan). • There is a marine biobank sample opportunity; • Marine Microplastics – link with WG on microplastics • Macroplastics as an option for NTS and assessment of additives opportunity on 4-5 y monitoring. • A common reporting structure for microplastics in the marine is needed. <p>Outputs from JPA 2022/23</p> <p>This JPA represented the start of what seems to be a very interesting opportunity in terms of the NORMAN data base, the scientific campaigns and the inputs and capacity of members who clearly are interested in driving this WG 8 initiative forward.</p> <ul style="list-style-type: none"> • A kick-off was held in February. In April, members of WG 8 focused their attention on Task 2, the prioritization of sea specific contaminants for the four European Sea Regions. A discussion was had regarding risk assessment and also the steps required in establishing a framework for prioritization. The exploratory discussions recognise that methodologies can be different but we can all learn from the processes. • Based on a review of WG1 processes, the marine environment-relevant protocols from the NORMAN Prioritisation Framework have been identified and compiled into a single document. This will be used at a later stage when merging the framework with the approaches used by HELCOM and OSPAR so as to generate a robust prioritisation framework for CEC in the marine environment. • A call for publications has been sent to members , requesting the submission of relevant publications on CECs in the marine environment and legacy pollutants as well as for relevant data sets .This is an ongoing request . • Moving forward , the aim is to establish a repository for all publications on material associated with WG 8 to be available on the NORMAN website. <p>Proposed activities in 2024</p> <p>TASK 1: General management</p> <p>1)Meetings This meeting request will go out to all Norman members to agree the plan for the coming year and to gather smaller groups to address each of the tasks. We will thereafter hold monthly meetings between February and November.</p> <p>2) Newsletter and website updates We will request information from members monthly to generate bi monthly newsletters and content for the website to have a go-to place for members. We will provide (as in 2023) an easy template for gathering publications and data.</p> <p>3) 2024 roadmap and development of WG 8 roadmap – where tasks are started in 2024 and extended into 2025.</p> <p>4) Sub-groups for working on tasks 2 and 3 will be established and will meet as needed.</p> <p>5) We would like to see a marine environment presentation or mini seminar at the next GA</p>

TASK 2: Prioritisation of sea specific contaminants for European Sea Regions NORMAN
Prioritisation Framework (EI, INERIS, UBA, all)

We will call a meeting in February of all groups interested in the task of prioritisation and continue to work with OSPAR and HELCOM continuing from work in 2023. All interested members will be asked to participate because there is a huge knowledge in Norman.

The proposal is for prioritisation of substances identified/determined in the North-East Atlantic and Baltic Sea under a series of Tiers.

- Tier 1: OSPAR CONNECT, OSPAR CONNECT2 and HELCOM PreEMPT projects
- Tier 2: LIFE APEX, UBA-HELCOM, OSPAR CONNECT, OSPAR CONNECT2 and HELCOM PreEMPT projects
- Tier 3: ICES Database monitoring data, LIFE APEX, UBA-HELCOM, OSPAR CONNECT, OSPAR CONNECT2 and HELCOM PreEMPT projects; any other data

Prioritisation of target and wide-scope target data using automated NORMAN Prioritisation tool for biota and sediment matrices

Development of alternative prioritisation scheme based on the Frequency of Appearance (FoA), persistence and bioaccumulation properties of the substances supported with the KEMI Exposure index

Prioritisation of suspect screening data using updated NORMAN Prioritisation tool (IP scores/ categories of suspect screening substances)

All samples to be retrospectively re-analysed with a list of >95,000 suspects and data uploaded into EMPODAT SUSPECT

Task 3 Data gathering

We will explore mechanisms for:

The transfer of **data from AMAP** study on emerging substances in Arctic environment into LIFE APEX and NORMAN Database System

Transfer of OSPAR, HELCOM and AMAP monitoring **data from the ICES database** into LIFE APEX and NORMAN Database System

- Option 1: all data since 2016
- Option 2: all data since the start date of the OSPAR CONNECT project (2020)

*Development of the list of **marine environment pollutants of specific interest** (RSCs, governmental agencies; with focus on GC-amenable substances)*

- **Retrospective screening** of all marine environment samples in DSFP for presence of these substances in GC-HRMS and LC-HRMS chromatograms
- *Inclusion of the newly identified substances into the prioritisation workflow; upload of the list in the NDS SLE*
- *Optional: purchase of chemical standards of the top 50 GC-amenable substances; analysis by GC-HRMS, upload of mass spectra into MassBank Europe*

Task 4 Ocean Decade event

We propose the establishment of a Norman WG8 sub-committee to plan an Ocean Decade event on chemicals. This should also include members of ERICs and other relevant groups. The suggested timeframe should be in line with the Joint Danube survey.

Task 5 Microplastics – collaborative engagement

We will meet quarterly with the microplastics WG to investigate how the harmonisation of reporting can be done and how macroplastics screening could be achieved.

Task 6 Explore a MC DTN application for November 2024

Added value / Link with other NORMAN activities and / or other projects

In order to bring awareness to the work being completed in relation to Working Group 8, a newsletter will be emailed to members of the WG bi-monthly. In doing this it ensures that WG 8 members can



	<p>continually update their colleagues on their publications , case studies etc related to CECs in the marine environment.</p> <p>In order to bring visibility to WG 8 relevant publications , the webpage will continually be updated with new papers by WG 8 members.</p> <p>Discussions with HELCOM and OSPAR regarding Task 2 will continue to take place in line with HELCOMs timeline of March 2024 so as to eventually develop the Prioritisation approach that encompasses the requirements of NORMAN , OSPAR and HELCOM.</p>
Participants	All interested in Marine Environment
Proposed in-kind contribution	<i>DCU Water Institute Manager time (0.5 months), Fiona Regan's time (0.2 months)</i>
Contribution needed from NORMAN Association¹	A % is requested to support the time of a research assistant to complete the work in 2024. <i>Much of the costs relate to staff to do the work. In-kind time is provided by DCU, EI, Marine Institute and other members that take part. Total costs relate to a % of RA time = 0.2 % = €7,200</i>

¹ Please, provide here a transparent justification of the requested resources and of the in-kind contribution, thereby distinguishing between the costs associated with “person-months” for the organisation, the “travelling costs” for invited speakers and the costs for the logistics (e.g. meals, room rental etc.)