

Proposals for NORMAN Joint Programme of Activities 2024

Title	Continuation: Passive Sampling One-Stop-Shop – Step Two: Identification of a route to adoption of passive sampling protocols
Type of activity	Data gathering and information sharing linked to Passive Sampling WG
Leader	Fiona Regan, Brendan McHugh
Topic / activities	<p>Background / Justification for the proposed activity:</p> <p>This proposal seeks to build upon the “passive sampling one-stop shop” in 2023 to collate relevant passive sampling study information into a central repository. It is proposed that a reporting template be developed that would not overly focus on collation of analytical data itself but more so on key validation / modelling information underpinning these studies (e.g. scope of analysis, robustness, influence of biofouling, KpW etc) for a wide range of passive sampling techniques. This information is fundamental to supporting PS as a monitoring tool/matrix. Critically it is proposed to then try to collate similar performance characteristics for both biota and water sampling techniques. When integrated with the passive sampling data, it is proposed to then critically evaluate passive sampling as a monitoring technique, in parallel with the more conventional spot water and/or biota techniques. In addition to this being a useful resource collating these data, it is envisaged that research gaps can then be identified through this process.</p> <p>The 2023 tasks and updates :</p> <ul style="list-style-type: none"> Develop a template detailing passive sampling /water and biota key performance criteria <p>These are available</p> <ul style="list-style-type: none"> Assemble relevant information to, link to papers, to potentially promote that PS can often be at least the equivalent to spot or biota sampling <p>Initial work has been completed to request and receive papers and case studies using passive sampling.</p> <ul style="list-style-type: none"> Create a repository for this information <p>At this time 256 entries have been added to the shared google drive hosted by DCU. https://drive.google.com/drive/folders/1T1712-ewGbE_MIPMzir6BI9GrOkvdh5X?usp=sharing</p> <ul style="list-style-type: none"> Critically assess key performance criteria across biota, water and passive sampling <p>The entries are being categorised based on a range of criteria to facilitate searches etc.</p> <ul style="list-style-type: none"> Promote the reporting of PS information <p>Regular email communications have occurred to inform members of the entries and further promotion will continue when the categorisations happen.</p> <ul style="list-style-type: none"> Increase visibility of PS <p>This is happening initially within the membership.</p> <ul style="list-style-type: none"> Identify research gaps and needs <p>Completed</p> <ul style="list-style-type: none"> Explore the potential for the development of an ITN or equivalent <p>Not started</p> <p>The JPA for 2024 Description of the proposed activity and expected outcomes:</p> <p>For 2024, this activity will focus on the design of the “one stop” shop interface that will be facilitate access to information on passive sampling work that has been done; case studies; methodologies ; theoretical aspects ; matrix effects etc.</p> <ol style="list-style-type: none"> Increase the numbers of papers in the database (Jan-April >400 papers) Characterise and provide a search and navigation protocol for accessing information on the Norman website ; (March – Aug) Scope a publication on case studies demonstrating the applicability of passive sampling for a range of applications ; (March-May) Identify methodology/applications that could be written as a method protocol ; Investigate the potential for a marine cross-partner passive sampling study ; Potential for a related ITN application to be further investigated. (July-October – deadline November) <p>Added value / Link with other NORMAN activities and / or other projects</p> <ul style="list-style-type: none"> Closely aligned with existing NORMAN priority area aims in the promotion of PS as a monitoring tool Closer alignment with other regional sea and related convention activities
Participants	All those interested in passive sampling studies: <i>MI, DCU, NIVA, INRAe ++, BRGM, ISSeP, AAFC, QAEHS UQ, AZTI, ICES Marine Chemistry working group</i>
Proposed in-kind contribution	DCU Water Institute Manager time (0.5 months), Fiona Regan's time (0.2 months): <i>Collaboration with passive sampling group members to collate relevant info. Work in parallel with ICES working group on marine chemistry. Additional contributions from the wider network would be in the form of identification and supply of relevant studies that are relevant to the template.</i>



Contribution needed from NORMAN Association¹	A % is requested to support the time of a research assistant to complete the work in 2024. €4,800 to DCU to provide partial support to a research assistant to collate the relevant information.
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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.)