

Working Group on Operational Oceanographic Products for Fisheries and Environment (WGOOFE)

2020/FT/EPDSG02 The Working Group on Operational Oceanographic products for Fisheries and Environment (WGOOFE), chaired by Francisco Campuzano, Portugal, and Tomasz Dabrowski, Ireland, will work on ToRs and generate deliverables as listed in the Table below.

| | MEETING DATES | VENUE | REPORTING DETAILS | COMMENTS (CHANGE IN CHAIR, ETC.) |
|-----------|----------------|------------------|-------------------------------|----------------------------------|
| Year 2021 | September 2021 | Lisbon, Portugal | | |
| Year 2022 | September 2022 | Galway, Ireland | | |
| Year 2023 | September 2023 | TBD | Final report by December 2023 | |

ToR descriptors

| TO R | DESCRIPTION | BACKGROUND | SCIENCE PLAN CODES | DURATION | EXPECTED DELIVERABLES |
|------|---|--|------------------------------------|----------|---|
| a | Engage in collaboration with relevant end-users and EGs to develop oceanographic and ocean products for fisheries and aquaculture applications. | Ocean data supplied from operational modelling has reached a mature state and services based on this information are continuously increasing. The challenge is to co-develop fit-for purpose services and to incorporate the environmental information in traditional assessment performed by fisheries managers from the ICES community and to support aquaculture activities. ICES WGs from EPDSG, IEASG and ASG will be invited to attend the WGOOFE meetings giving priority to the host country. | 1.2, 1.3, 2.5, 4.2 | 3 years | Production of a 'Proof of Concept' (PoC) example to showcase the application of operational products (remote sensing and numerical models) in integrated ecosystem assessment. Relevant Chair(s) of other WGs will be encouraged to identify the products that will be relevant to their assessments and required formats. Remote calls will be organized with the ICES data centres and the ecosystem overviews WGs. Other ICES WGs linked to assessment will be invited to each WGOOFE meeting. |
| b | Respond to ad hoc | WGOOFE will distribute | 5.3, 6.1, | 3 years | Involvement of |

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| | advisory requests on oceanographic products for the ICES ecosystem modelling, advisory and ocean observing communities, when needed. To increase profile and disseminate across the ICES community the availability of oceanographic datasets, products and time-series. | among their members the requests made to ICES SCICOM and will produce and provide the required information with reasonable timings. WGOOFE will contribute with operational information from numerical models and EOs to the elaboration of ICES ecosystem overviews and integrated ecosystem assessments collaboration with IEASG WGs. | 6.4, 6.6 | | WGOOFE in ICES workshops where operational products are needed. Reports for specific requests. WGOOFE co-promotion and co-organisation of oceanography sessions in ICES ASC. Develop fact sheets for ICES expert groups and further targeted meetings with groups and workshops. |
| c | To develop 'fit for purpose' case studies to showcase applications of oceanographic products in integrated assessments and advice. The demonstration will include adequate environmental variable(s) and/or index(es) that could aid fisheries management or assessment. Since this is a novel approach, the method will be continuously evaluated. WGOOFE will enable linking ICES activities with the EU MSFD. To ensure Good Environmental Status the European Member States need to monitor and provide indicators that could benefit the integrated ecosystem overview reports. | Despite high quality level of operational oceanography products, their use for fisheries stock assessment or integrated ecosystem assessments is still in an early stage WGOOFE will promote the use of operational products. Clearly described case studies are required in order to demonstrate best practice and to increase user confidence in using the products of operational oceanographic services. MSFD is the most important legislation related to the environmental status of European Waters. Linking MSFD and ICES indicators and evaluation is mutually beneficial. | 6.6, 6.1, 6.2, 1.2 | 3 years | Production of fact-sheets style documents with index-based products of environment and oceanographic change (in addition to ICES own operational ocean products). WGOOFE will provide MSFD indicators and ICES indicators at least for the Atlantic European Waters through the iFADO project (www.ifado.eu) and will promote same activities in other ICES waters. |

Summary of the Work Plan

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| Year 1 | Reactivate the WGOOFE members and enlarge the WG community. Organise the first online meeting and explain this 3-year period ToRs. Propose on-line meetings every 6 month period. Case Study Development: Approach regional assessment expert groups (e.g. WGINOSE, |
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| | <p>WGEAWESS, WGNARS) to start process.</p> <p>WGOOFE needs to increase the current end-user involvement at its own meetings, and the strategy to overcome this situation is to ask WGOOFE members to contact ONE local relevant expert group. On each in-person meetings, the local-end user will be invited to gather their data needs and to explore how defined products can be used.</p> <p>Approach WGOH about using spatial ocean data in IROC (e.g. Copernicus SST). In the first meeting a list of indices will be presented and members will select the implementation order moving from simple to more complex indices including fish/fisheries, MSFD (OSPAR common indicators), climate change, etc.</p> <p>First face to face meeting in summer/autumn 2021. The meeting will take place in Lisbon and will invite WGs related to local fisheries in order to setup the communication between WGs where scientific research questions to be defined, such as: what is the impact of ingesting different data sources into assessment models (integrated/fisheries/...). Set up working plan for Year 2 based on developments. Remote attendance via online applications will be provided to facilitate a broader participation.</p> |
| Year 2 | <p>Second face to face meeting- WGOOFE meeting, in summer/autumn 2022 most probable in Ireland. Invite other ICES WG that could be relevant for the host country fisheries. Production of the first WGOOFE Indicators report.</p> <p>Evaluation/reporting of results from first year work including indices generation and collaboration with the assessment WG. Indicator results should include synthesis, presentation (ensembles, comparisons) and data visualisation.</p> |
| Year 3 | <p>Third face to face meeting- WGOOFE meeting, in summer/autumn 2023 location to be defined. Invite other ICES WG that could be relevant for the host country fisheries. Production of the second WGOOFE Indicators report.</p> <p>Evaluation/reporting of results from second year work including indices generation and collaboration with the assessment WGs.</p> <p>Election of new/current WG chairs and definition of ToRs for the next 3-year period.</p> |

Supporting information

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| Priority | The current activities of this Group will lead ICES into issues related to the provision of integrated ecosystem management and advice. |
| Resource requirements | The research programmes which provide the main input to this group are already underway, and resources are already committed. The additional resource required to undertake additional activities in the framework of this group is negligible. |
| Participants | The Group is normally attended by some 10–20 members and guests. |
| Secretariat facilities | Standard support to WG. |
| Financial | No financial implications. |
| Linkages to ACOM and group under ACOM | The integrated ecosystem assessment working groups, as well as any other advisory groups which would benefit from environmental and oceanographic information being incorporated in their advisory work. |
| Linkages to other committees or groups | There is a very close working relationship with WGOH and WGS2D as well as WGEAWESS. |
| Linkages to other organizations | OSPAR, CMEMS, EMODnet, EuroGOOS |
