

Project participation

Summary

With the transition from EU Framework Programme 8 (Horizon 2020) to the Framework Programme 9 (Horizon Europe) considerable changes with regards to strategic activities - those not supporting research itself but research coordination - are envisaged. The existing regional ERA-NETs (initiatives coordinating research programming and funding at macro-regional scale) will be asked to create an alliance of regional seas in Europe. EU funding for the trans-Atlantic Research coordination mechanism (the Atlantic Ocean Research Alliance, based on the 2015 Galway Statement) will come to an end in 2020. Continuation of EU support to these initiatives is likely to take place under Horizon Europe. The exact funding mechanisms to strategic level projects (e.g. Coordination and Support Action) is yet to be developed.

During the Statutory Meeting in October 2015, the Council Working Group ICES Business Model (CWGIBM) recommended that ICES and the Secretariat should have a proactive participation role in Coordination and Support Action (CSA) projects (an EU funding mechanism that is aimed at supporting use of existing knowledge, through coordination and net-working activities, as well as dissemination, rather than research) that are aligned with the ICES Science Plan. The Council, at its statutory meeting in 2016, supported the proposal for ICES to seek to lead relevant CSA projects. It was highlighted that CSAs provide full-cost recovery.

Action:

The Council is requested to decouple decision-making on research project development (in-line with the [ICES projects policy](#)) from strategic project development, and give Secretariat/ACOM/SCICOM a mandate to engage ICES with the latter.

2. Ongoing projects

| Call | Name of project | ICES Secretariat contact person | Main task | No of partners per ICES member country | ICES relevance | Does the project contribute to strengthening ICES advice? (optional) |
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| | H2020 AtlantOS Optimizing and Enhancing the Integrated Atlantic Ocean Observing System' (2015-2019) <i>3m cost-neutral extension until sept 2019</i> | Neil Holdsworth, Mehdi Abbasi, Hjalte Parner, | Improving fish survey acoustic and biotic data availability through ICES Data Centre for three key pelagic fisheries surveys. Standards and harmonization to information aggregator portals for fisheries via ICES DATRAS and ICES ACOUSTIC. | BE: 3; CA: 2; DE: 8; DK: 3; ES: 3; FR: 12; IE: 3; NL: 2; NO: 3; PL: 1; PT: 3; UK: 10; USA: 1 | Enabled ICES to build the acoustic data portal (WP2), and support the steering and expert groups behind acoustic data. This is a key input to the transparent assessment framework, and the portal has helped develop standards, protocols and increased access to these data. http://ices.dk/marine-data/data-portals/Pages/acoustic.aspx . The networking and contribution to the Atlantic Observing system architecture under WP1 has put ICES together with other international networks to help define a blueprint (IOC, GOOS). | Yes, quality assurance and transparency of ICES advice (see previous column) |

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| | H2020 AORA-CSA Atlantic Ocean Research Alliance Coordination and Support Action' (2015-2020) | Anne Christine Brusendorff, Wojciech Wawrzynski, Ellen Johannesen, Karolina Reducha, Neil Holdsworth, Julie Krogh Hallin | Participation in the project's High Level Operational Board (WP1) as well as leading three work packages: Ecosystem Approach/Ocean Stressors (WP4), Aquaculture (WP7), Knowledge Sharing Platform (WP11). | CA: 1; DK: 1; ES: 1; FR: 2; IE: 1; IS: 1; NO: 1; PT: 1; UK: 1 | Inventories of international collaborations / projects / applicable research results in the AORA thematic areas (ocean stressors, aquaculture, ocean literacy, seabed mapping); Trilateral WGs on AORA thematic areas; Action roadmaps with staff exchanges, project twinning, joint publications, resource sharing and coupling of research funding. | The project explored the mandates and objectives for EBM in the North Atlantic. These can be used directly by the development of the ECOFRAME initiative. The clarification of EBM goals proved useful in the production of the ICES statement on EBM. |

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| | <p>H2020 ClimeFish Co-creating a decision support framework to ensure sustainable fish production in Europe under climate change’ (2016-2019)</p> | <p>Lotte Worsøe Clausen, Anne Cooper, Eirini Glyki, Wojciech Wawrzynski</p> | <p>ICES will contribute to debates and dissemination activities within its European arenas to ensure science for sustainable use of the sea, especially within the fishery sector.</p> | <p>CA: 1; DE: 1; DK: 1; ES: 2; FR: 1; IS: 1; NO: 3; SE: 1; UK: 2</p> | <p>Provision of input to the DGMARE request concerning fish distributions over time and potential changes herein. EDF/ClimeFish workshop on governance and management of European fisheries in changing climate scenarios.</p> | <p>ICES involvement in the ClimeFish project facilitates the strengthening of the ICES advisory system in three key fields:</p> <ul style="list-style-type: none"> • modelling the impacts of climate change on wild fish stocks in the Northeast Atlantic; • modelling the impacts of climate change on current and potential aquaculture activities in the Northeast Atlantic; • communicating key scientific findings to relevant policymakers in an efficient and effective manner. <p>Aquaculture is a strategic initiative in the ICES Strategic Plan and via ICES participation we have access to</p> <ul style="list-style-type: none"> • a network of experts studying the impacts of climate change on existing and planned aquaculture activities in the Northeast Atlantic; |
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| | | | | | | <ul style="list-style-type: none"> the associated government officials and industry representatives. |
| | GEF LME LEARN Strengthening Global Governance of Large Marine Ecosystems and Their Coasts through Enhanced Sharing and Application of LME/ICM/MPA Knowledge and Information Tools (2016-2019) | Wojciech Wawrzynski , Anna Davies, Ellen Johannesen | ICES leadership in the LME-LEARN Ocean Governance WG; organization of training courses for LME practitioners and managers within the ICES Training Programme. | USA: 1; Intergovernmental: 7 | LME-LEARN toolkits to be made available (on ocean governance; LMEs and stakeholder participation; maritime spatial planning; environmental economics); Thematic / geographical boost to the ICES Training Programme. ICES gateway to the partner agencies implementing the UN SDG14. | The project contributing to integrated ecosystem assessments and ecosystem overviews (previously through links with the WGLMEBP, now through IEA SG). |

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| | H2020 SeaDataCloud Further developing the pan-European infrastructure for marine and ocean data management (2016-2020) | Neil Holdsworth , Anna Osypchuk, Hjalte Parner, Marilynn Sorensen | Project network coordination (WP2); Expansion and governance of metadata and data content (WP5); Governance of standards and development of common services (WP8); Developments of upstream services (WP9); Developments of downstream services (WP10); Development, update and publication of data products for European sea regions (WP11). | BE: 5; DE: 5; DK: 2; EE: 1; ES: 2; FI: 3; FR: 3; IE: 1; IS: 1; LV: 1; NL: 3; NO: 1; PL: 2; PT: 1; SE: 1; UK: 2 | SeaDataCloud is the 3rd iteration of SeaDataNet, the ICES Data Centre is a key player in the steering of the development and ensures the development of standardisation and governance. The infrastructure service that ICES supply as part of the SeaDataCloud backbone is a core (and demanding) part of the ICES data work, and subsidised by this activity. | Indirectly – working on joint standards and coding conventions is at the core of this project community; this in turn brings knowledge on best practice on data management into ICES work. |

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| | EMFF EASME EMODnet Biology III Operation, development and maintenance of a European Marine Observation and Data Network Part 1 (2017-2019) Part 2 (2019-2021) | Neil Holdsworth, Carlos Pinto | Major provider of biological observations (presence/absence). Collaborating on data products i.e. the ICES OOPS derived via this project. Also contributing to data standards and harmonization. | BE: 3; DK: 2; ES: 1; FI: 1; FR: 1; NL: 3; NO: 1; PT: 1; SE: 1; UK: 5 | The OOPS Zooplankton product http://ices.dk/news-and-events/news-archive/news/Pages/Zoom-in-on-zooplankton-data.aspx was developed via this cooperation. | The project has the potential – as shown with OOPS – to deliver operational data products in addition to what the ICES Data Centre, and ICES community can offer and is prepared to do this in a way that would allow these products to be used in an advice process with assessment of their quality. |

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| | H2020 PANDORA Paradigm for Novel Dynamic Oceanic Resource Assessments (2018-2021) | Lotte Worsøe Clausen , Anna Davies, Neil Holdsworth, Eirini Glyki, Periklis Panagiotidis, | Training, integration of new knowledge into operational advice, incorporation new data collection methods. Enabling conversations between research scientists and ICES advisory working groups. | DE: 3; DK: 3; EE: 1; ES: 3; FR: 1; NL: 3; NO: 2; UK: 6 | This project addresses the incorporation of new data and knowledge into the management process. It helps address many of the objectives in the ICES strategic plan. ICES will facilitate in particular the interface between operational stock assessment developments and management needs. | This project aims to directly improve the stock assessment methods for management challenges in the ICES area. The regional case studies are mostly centred on major stocks of interest for ICES, and paths for incorporation of new methods into ICES advice have been written into the proposal. |

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| | EEA ETC-ICM The European Topic Centre on Inland, Coastal and Marine waters (2019-2021) | Neil Holdsworth , Neil Holdsworth, Periklis Panagiotidis, Hans Mose Jensen, Sebastian Valanko, Colin Millar, Inigo Martinez | Data flows in support to the MSFD. Supporting the publication of marine indicators and assessment in the European Seas. | DE: 4; ES:1; FI: 1; NL: 1; NO: 1; UK: 1 | Extended use of ICES data in the publication of marine indicators (Nutrients and chlorophyll in seawater, contaminants in biota, and changes in fish distribution) and assessment (Hazardous substances and eutrophication). | ICES does not give advice on assessments of these indicators. However, the data flows directly benefit member countries that are members of ICES, OSPAR, HELCOM as it allows for streamlined reporting of data and greater harmonization of assessment tools. A standing special request from OSPAR is the management of data handled by ICES on their behalf, as well as hosting/developing Eutrophication and Contaminants tools for both OSPAR And HELCOM, which are also relevant to the EEA European assessments of the same state indicators. |

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| Sustainable harvesting of marine biological resources - LC-BG03-2018 | H2020 MEESO - Ecologically and economically sustainable mesopelagic fisheries (2019-2023) | Vaishav Soni , Neil Holdsworth, Hjalte Parner, Lise Cronne-Grigorov, Hans Mose Jensen, Periklis Panagiotidis, Mehdi Abassi, Adriana Villamor, Joana Ribeiro | Work Package lead of Data management and dissemination | DK: 2; FR: 1; IR: 3; IS: 1; NL: 1; NO: 5; PT: 1; SE: 1; SP: 1; UK: 2 | Embedding ICES standards and protocols in the data collection processes of the project, ensuring hosting of the data beyond the project life cycle. Further development of the acoustic data portal, as well as boosting the eggs and larvae standards and datasets managed through ICES. | This project will strengthen the workflow and standardization of the input of acoustic and biotic dataflows to ICES, and therefore improve overall quality assurance of the advice workflow. |

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| <p>MSFD - second cycle: implementation of the new GES decision and programmes of measures</p> <p>- DG ENV/MSFD 2018 call</p> | <p>QUIETMED2 - Joint programme for GES assessment on D11-noise in the Mediterranean Marine Region (2019-2021)</p> | <p>Neil Holdsworth, Sebastian Valanko, Carlos Pinto</p> | <p>Knowledge share about the process of development of the OSPAR noise register, the implementation of the tool. Identification of barriers and difficulties of the contributors to the register for submitting data, reporting, etc. Contributions to a preparatory study with requirements specification of a tool to implement an impulsive noise impact indicator. Knowledge share about technical issues for the design, development and implementation of a tool to implement an impulsive noise impact indicator Review and assessment of the demo tool. Attendance to the kick-off and final meeting in</p> | | <p>Continue the cooperation on standards, exchange of data and knowledge between the NE Atlantic, Baltic and Mediterranean sea regions. Ensure the noise register at ICES remains at the front of developments in including impact indicators into the framework.</p> <p>Ensures that there is no disconnect between contracting parties to ICES feeding the ICES hosted noise register, and the Mediterranean noise register (France, Spain). And prevents a lost opportunity to align/connect the two regional platforms.</p> | |
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| | | | Brussels and up to 4 workshops. | | | |
| EASME/2019/OP/0003 European Marine Observation and Data Network (EMODnet) - Thematic groups Geology, Seabed habitats, Physics and Chemistry | EMFF EASME EMODnet Chemistry IV (2019-2021) | Neil Holdsworth, Lise Cronne-Grigorov | Work package lead on user feedback, especially linking MSFD into the data product development of EMODnet Chemistry. Also contributing to data standards and harmonization. | BE: 3; DE: 1; DK: 1; EE: 1; ES: 1; FI: 2; FR: 1; IE: 1; LV: 1; NL: 4; NO: 1; PT: 1; SE: 1 <i>(include partners, subcontractors , and data providers)</i> | ICES is ensuring synergy between existing dataflows and the EMODnet portal to avoid duplication of data (and effort). ICES also acts as the main conduit from the OSPAR and HELCOM data product needs into EMODnet Chemistry. | ICES do not provide Advice on assessments of contaminants and eutrophication, however ICES are contracted to provide services to both HELCOM and OSPAR that are strengthened through this project. |

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| EASME/2019/OP/0003 European Marine Observation and Data Network (EMODnet) - Thematic groups Geology, Seabed habitats, Physics and Chemistry | EMFF EASME EMODnet Physics (2019-2021) | Neil Holdsworth, Lise Cronne-Grigorov | ICES Data Centre to provide expertise in the underwater noise data developments (both impulsive and ambient) and act as conduit between RSC's, MSFD TG NOISE and the EMODnet project; Also help in providing web services to the EMODnet portal | FR: 1; NL: 1; SE: 1 | Consolidate ICES activities on underwater noise and to avoid missed synergies and ensure ICES is recognized in area | |

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| EASME/2019/OP/006: EMODnet – Ingestion and safe-keeping of marine data | EMFF EASME EMODnet Data Ingestion II | Neil Holdsworth, Lise Cronne-Grigorov | ICES serves as a point of contact for biological and environmental data. | BE: 3; DE: 2; DK: 2; ES: 2; FI: 2; FR: 2; IE: 1; NL: 4; NO: 1; PT: 1; SE: 1; UK: 3 | Influence and staying in line with current metadata standard developments used for submitting data. Potential source of new data from providers not currently in established data collecting frameworks leading into EMODnet data portals as well as ICES. | If the project succeeds in leveraging data from new sources – primarily industry and other commercial sources, this will deepen the pool of data available to the Advice process. |

3. Subcontracts

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| JMP-EUNOSAT Joint Monitoring Programme of the Eutrophication of the North Sea with Satellite data (2017-2019) | Neil Holdsworth, Hjalte Parner | Contributing to OSPAR indicator development for eutrophication | BE: 1;DK: 1; FR: 1;UK: 3; NL: 2;NO: 2; SE:1 | Embed the assessment tool and process developed for HELCOM in the OSPAR assessment. |
| Impulsive Noise Register (2017-2019) (2019-2020) | Neil Holdsworth, Carlos Pinto | Development and Hosting of underwater noise register | OSPAR and HELCOM contracting parties | ICES is developing the standards for data and technical development of the MSFD indicators in close collaboration with OSPAR, HELCOM and EU TG NOISE groups |
| Nansen Legacy Project (2018-2023) | Lotte Worsøe Clausen, David Miller, Sebastian Valanko | Contribute to user and stakeholder reference group. Increase ICES presence in Arctic networks and see where and how ICES can contribute to future endeavours in the Arctic. | NO: 10 | Nansen Legacy will result in a scientific basis for long-term, holistic, and sustainable management of marine ecosystems and human presence in the emerging oceans of the high Arctic. |
| BALTIC-BIAS (2019+) | Neil Holdsworth | Hosting HELCOM data on continuous noise. | | Making the data available in the ICES system in line with the impulsive noise register. |

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| HELCOM contaminants assessment tool (2018-2019) | Neil Holdsworth | Development of a platform for HELCOM hazardous substances; Optimization of the platform; The HELCOM hazardous substances integrated assessment tool (CHASE) will be incorporated into the platform. | | This reinforces ICES expertise and position as the data manager for marine contaminants for HELCOM. In addition, this work builds on a special request which was delivered to OSPAR at the end of 2018 for the development of the OSPAR assessment tool in an online map based platform. Furthermore, the platform will be used in a 3rd phase to develop a contaminants assessment tool for AMAP. In this way ICES will act as a bridge between all 3 regional programmes, and also ensure non-duplication of data streams and tools for the overlapping contracting parties, who are all ICES member countries. |
| AMAP – ICES DoME – DCE Cooperation (2018-2019) | Neil Holdsworth | ICES serves as the AMAP (marine) Thematic Data Centre in relation to data collected in the Arctic area for its thematic assessments. ICES will organize work by an external consultant to secure reporting of Danish AMAP CORE data from 1984 to 2016 and its incorporation in the ICES DOME database using the Environmental Reporting Format (ERFv3.2) data format and performing quality checks (DATSU) on the submissions. If any checks are critical, these will be resolved by dialogue with ICES. | | This small project, mainly carried out by Aarhus University (DCE), ensures that the datasets for marine contaminants gathered in Greenland as part of the AMAP assessments is available on an international portal. This was specifically requested by the Danish Ministry. This process also brings AMAP to using the standards, checks and procedures that are used in our contaminants database (ICES DOME). |

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| ECOMAR – ICES – DTU Aqua cooperation (2019-2020) | Lotte Worsøe Clausen, Colin Millar, Carlos Pinto, Adriana Villamor | <p>ICES is a subcontractor to the project, tasked with production of data layer maps. This request reconciles the need for a rational approach to the cost of extracting and submitting the data by the states across the region.</p> <p>The final outputs will be map layers of gridded data (500m grid) showing:</p> <ol style="list-style-type: none"> 1) presence, absence and intensity of fishing in the Danish EEZ by gear category. 2) estimated uncertainty of the above values in each cell 3) the current scientific knowledge, availability of data / measurements | | <p>The ECOMAR project, funded by the Velux Foundation, is developing and testing data-based tools for ecosystem-based marine spatial planning in Danish waters with the aim of making these tools available for relevant authorities and other users after completion of the project</p> |
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4. Projects in pipeline

| Call | Name of project | ICES Secretariat contact person | Main task |
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| All Atlantic Ocean Research Alliance Flagship - LC-BG08-2018 | BG8b Mission Atlantic | Wojciech Wawrzynski , Neil Holdsworth, , Anna Osypchuk, Carlos Pinto Anna Davies, Alondra Sofia Rodriguez | Contribute to the Data Management Work package; Delivery of an online course; definition of learning objectives for the e-learning Contribution to engagement in the 'Atlantic Forum' (All-Atlantic CSA) |
| COST Action Proposal OC-2019-1-24081 | ODIP + Ocean Data Interoperability Platform | Neil Holdsworth , Lise Cronne-Grigorov | Tasks under negotiation with coordinators. |