

Update on external projects

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1. Projects concluding in 2018

Name of project	ICES Secretariat contact person	Main task	No of partners per ICES member country	ICES relevance	Ex-post evaluation of deliverables Did the project contribute to strengthening ICES advice? (optional)
H2020 BlueBRIDGE Building Research environments for fostering Innovation, Decision making, Governance and Education to support Blue growth (2015-2018)	Wojciech Wawrzynski, Anna Davies, Morten Holdt	Support for stock assessments and training. Knowledge bridging, education and capacity building for the management of marine living resources through virtual research environments (VREs).	DK: 1; FR: 4; NO: 1; UK: 1	IT support to training courses. Development of on-line training options. Integration of models and IT tools into stock assessment.	<ul style="list-style-type: none"> DTU-AQUA/ICES/BlueBRIDGE oceanography MOOC online; (link available here) Successful utility of the BlueBridge virtual research environments for the ICES training courses for the past two years. Including training in an online R environment, the Shiny app and use of various mapping tools. Successful cooperation with other organisations in reaching communities and universities beyond the ICES community, including the FAO, University of Athens and the national research council of Italy (see the table below for the outreach numbers) Completion of a BlueBRIDGE workshop on innovative technologies at the service of the aquaculture, fisheries, and research sectors. Held in Riga in September 2016, aimed at researchers and scientists requiring large computing capacities, tools to harmonize data sources, and facilities to share research results.
H2020 COLUMBUS Monitoring, Managing and Transferring Marine and Maritime Knowledge for Sustainable Blue Growth (2015-2018)	Wojciech Wawrzynski, Julie Krogh Hallin, Vivian Piil, Terhi Minkinen, Simon Cooper	ICES works with partners to ensure uptake of useable knowledge within the ICES network.	BE: 4; DE: 2; DK: 3; ES: 3; FR: 2; IE: 3; NO: 1; PT: 1; UK: 5	Collection of research knowledge outputs from international research projects. Assessment and applicability of knowledge outputs: knowledge output tables with shortlisted results to be made available via the on-line EurOcean Knowledge Gate. Examples of applicability: knowledge output pathways with impact measurement, dissemination and exploitation plans.	European science & innovation projects made available; results may be uptaken by groups in the ICES community

2. Ongoing projects

Name of project	ICES Secretariat resources	Main task	No of partners per ICES member country	ICES relevance	Does the project contribute to strengthening ICES advice? (optional)
EEA ETC-ICM The European Topic Centre on Inland, Coastal and Marine waters (2014-2018)	Jørgen Nørrevang Jensen Neil Holdsworth, Periklis Panagiotidis, Hans Mose Jensen	Data flows in support to the MSFD. Supporting the publication of marine indicators and assessment in the European Seas.	DE: 3; DK: 2; FI: 1; NL: 2; NO: 1; UK: 2	ICES quality control of data is recognised as the 'golden stamp' 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). Closer engagement with both high level processes in the EEA and DG ENV related to MSFD, Copernicus and other large scale European infrastructures.	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.
H2020 AtlantOS Optimizing and Enhancing the Integrated Atlantic Ocean Observing System' (2015-2019)	Neil Holdsworth , Mehdi Abbasi, Hjalte Parner, Mark Dickey-Collas	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)
H2020 AORA- CSA Atlantic Ocean Research Alliance Coordination and Support Action' (2015-2020)	Anne Christine Brusendorff , Wojciech Wawrzynski, Ellen Johannesen, Mark Dickey-Collas, 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); Online access to the findings via the online AORA Knowledge Sharing Platform. 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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H2020 ClimeFish Co-creating a decision support framework to ensure sustainable fish production in Europe under climate change’ (2016-2019)	Lotte Worsøe Clausen, Anne Cooper, Eirini Glyki, Mark Dickey-Collas, Scott Large, Wojciech Wawrzynski	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.	CA: 1; DE: 1; DK: 1; ES: 2; FR: 1; IS: 1; NO: 3; SE: 1; UK: 2	Provision of input to the DGMARE request concerning fish distributions over time; EDF/ClimeFish workshop on governance and management of European fisheries in changing climate scenarios.	ICES involvement in the ClimeFish project facilitates the strengthening of the ICES advisory system in three key fields: <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. Aquaculture is a strategic initiative in the ICES Strategic Plan and via ICES participation we have access to <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; • the associated government officials and industry representatives.
EMFF EMODnet INGESTION European Marine Observation and Data Network (2016-2019)	Hjalte Parner, Neil Holdsworth, Anna Osypchuk, Else Juul Green	ICES serves as a point of contact for biological and environmental data.	BE: 2; DE: 1; DK: 3; ES: 2; FI: 2; FR: 2; IE: 1; NL: 2; NO: 1; PT: 1; SE: 1; UK: 1	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.
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 (previously through links with the WGLMEBP, now through IEA SG) to ecosystem overviews.

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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, Marilyn Sorensen, Signe Bagger	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.	No obvious linkage.
EMFF EASME EMODnet Biology III Operation, development and maintenance of a European Marine Observation and Data Network (2017-2019)	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.
EMFF EASME EMODnet Chemistry III Operation, development and maintenance of a European Marine Observation and Data Network (2017-2019)	Neil Holdsworth , Hans Mose, Jensem, Mehdi Abassi	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: 2; DE: 1; DK: 2; EE: 1; ES: 1; FI: 2; FR: 1; IE: 1; LV: 1; NL: 2; NO: 1; PT: 1; SE: 1	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.
H2020 PANDORA Paradigm for Novel Dynamic Oceanic Resource Assessments (2018-2021)	Lotte Worsøe Clausen , Mark Dickey-Collas, Anna Davies, Lise Cronne, 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, Seb 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).	See 2014-2018 project of same name

3. Contracts and sub-contracts

Name of project	ICES Secretariat contact person	Main task	ICES relevance
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	Embed the assessment tool and process developed for HELCOM in the OSPAR assessment.
Impulsive Noise Register	Neil Holdsworth, Carlos Pinto	Development and Hosting of underwater noise register	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	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.	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 database on continuous noise	Making the data available in the ICES system; in-line with the impulsive noise register

4. Projects in pipeline (all proposals are submitted)

Call	Name of project	ICES Secretariat contact person	Main task
Towards a Baltic and North Sea research and innovation programme - LC-BG-01-2018	BG1	Simon Jennings	Provide link between proposed project and ICES given ICES role as strategic project partner.
Sustainable harvesting of marine biological resources - LC-BG03-2018	MEESO	Neil Holdsworth	Data management (Lead by Neil Holdsworth, ICES) will aim to make the data collected under this project available and accessible beyond the project partners, and to other users related to the CFP and MSFD in particular.
All Atlantic Ocean Research Alliance Flagship - LC-BG08-2018	BG8b Mission Atlantic	Wojciech Wawrzynski , Neil Holdsworth, Periklis Panagiotidis Terhi Minkkinen Carlos Pinto Anna Davies	Co-lead 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)
Interreg Atlantic Area	AtlantEA	Neil Holdsworth	ICES is to host an atlas of information, thus providing key resources for researchers, stakeholders and policy makers. The tool will highlight the various sectors, pressures and ecological characteristics in each of the study regions and case study areas, the risk scores associated with them, and the data that supports the linkages (both trends from data, links to data sources, and publications). ICES is to contribute to combining of findings of AQUACROSS and ODEMM projects and to delivering these via the interactive tool, providing a key resource for researchers, stakeholders and policy makers in an easily understood format. ICES will also work to embed the outputs into the ICES IEA programme and also provide input into training courses and developments.
MSFD - second cycle: implementation of the new GES decision and programmes of measures - DG ENV/MSFD 2018 call	QUIETMED2 - Joint programme for GES assessment on D11-noise in the Mediterranean Marine Region	Neil Holdsworth , Sebastian Valanko, Carlos Pinto	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 Brussels and up to 4 workshops.

5. Upcoming calls

- **H2020 WP 2018-2020** (Planned opening 16 October 2018).
 - **BG-05-2019:** Multi-use of the marine space, offshore and near-shore: pilot demonstrators (IA, single-stage)
 - **BG-07-2019-2020:** The Future of Seas and Oceans Flagship Initiative (IA, single-stage)
 - **BG-08-2018-2019:** All Atlantic Ocean Research Alliance Flagship (RIA, two-stage) - BG8a/c
 - **CE-BG-06-2019:** Sustainable solutions for bio-based plastics on land and sea (IA, single-stage)
 - **DT-BG-04-2018-2019:** Sustainable European aquaculture 4.0: nutrition and breeding (IA, single stage)
 - **LC-CLA-06-2019:** Inter-relations between climate change, biodiversity and ecosystem services (RIA, two-stag

