

## Working Group on Resilience and marine ecosystem services (WGRMES)

2017/MA2/EPDSG05 The Working Group on Resilience and Marine Ecosystem Services (WGRMES), chaired by Sebastian Villasante, Spain, and Andrea Belgrano\*, Sweden, will work on ToRs and generate deliverables as listed in the Table below.

	MEETING DATES	VENUE	REPORTING DETAILS	COMMENTS (CHANGE IN CHAIR, ETC.)
Year 2018	19–20 November	Vigo, Spain	Interim report by 15 December	
Year 2019	5–6 September	Gothenburg, Sweden		<b>Change in Chair:</b> <b>Outgoing:</b> Gonzalo Macho Rivero, Spain <b>Incoming:</b> Andrea Belgrano, Sweden
Year 2020	24–27 November	by corresp/ webex	Final report by 15 January 2021 to SCICOM	

## ToR descriptors

TOR	DESCRIPTION	BACKGROUND	<a href="#">SCIENCE PLAN</a> <a href="#">CODES</a>	DURATION	EXPECTED DELIVERABLES
A	To undertake a literature search to assess the current data available to document the resilience of marine ecosystem services	Information and data on marine ES is scarce and not organized. Links to ICES Science Plan 1st, 2nd and 3rd thematic areas, and WGs described above	1.3; 2.4; 5.8	1 year	-Interim report -Global review paper: Key drivers for resilient small-scale fisheries. - Exploration of potential opportunities for collaboration with EU institutions and fishery organizations -Online repository with results from year (2015-2017)
B	To document the current approaches available in connection to multidimensional valuation of marine ecosystem services	Valuing marine ES is key for policy makers. Regional and local data is lacking in Europe. Links to ICES Science Plan 1st and 2nd Thematic Areas; and WGs described above	4.3; 6.5; 7.1	2 years	-Interim report -Paper review on intrinsic, instrumental and relational values of marine ES -Special Session at ASC 2018 -Special Session at PICES 2018 -Extended version of the online repository
C	To review the available information and to produce a document with the co-	Marine ES are co-produced by a mixture of natural capital and various forms	4.1; 5.4; 7.7	2 years	-Interim report -Special Session at ASC 2019

	production of marine ES	of social, human, financial and technological capital. Human intervention in the co-creation of marine ES is a key driver in ES delivery,			-Special Session at AAA Conference 2019 -Global paper about co-production of marine ES -Special Issue "Blue Growth under the Anthropocene"
D	To work on the Special Issue entitled: "Tipping points and social transformations of marine ES"	Document critical changes which facilitate transformations of social groups. Links to ICES Science Plan 1st, 2nd and 3rd thematic areas, and WGs described above and below. Links to the Strategic Initiative on the Human Dimension	2.4; 5.1; 7.3	2 years	-Interim report -Global paper documenting social transformations of marine ES. -Special Session at ASC 2020 -Special Issue "Tipping points and social transformations of marine ES"
E	Governance and scenarios for sustainable marine ES	The role of institutions is key to develop assessments of best practices of integrated assessments of marine ES	6.3; 6.6; 7.6	3 years	-Interim report -Global paper on governance of

### Summary of the Work Plan

Year 1	Review of existing frameworks, methodologies and tools to study socio-economic dimensions of marine ecosystem services
Year 2	Understanding of ecological, economic, cultural, social drivers of changes of marine ecosystem services
Year 3	Scenarios and policy recommendations for resilient trajectories of marine ecosystem services

### Supporting information

Priority	High. The current activities of this Group will lead ICES into issues related to marine ecosystem services, integrating fisheries management and ecosystem services frameworks. Consequently, these activities are considered to have a very high priority.
Resource requirements	None required other than those provided by the host institute.
Participants	The Group is normally attended by some 15 members and guests.
Secretariat facilities	None.
Financial	No financial implications. The WGREMS will explore to get funds from H2020 calls and others to support and expand the activities inside and outside Europe

Linkages to ACOM and groups under ACOM	AFWG, WGECO, WGRFS
Linkages to other committees or groups	There is a close working relationship with WGBIODIV, and also EPISGEGs (WGMHM, WGMPCZM, WGSFD), SICCME, WGIMM, WGLMEBP, WGISUR, WGMARS, and BONUS.
Linkages to other organizations	The work of this group is aligned with other global nodes of ES research such as the Ecosystem Services Partnership in which the one of the chair (Dr. Villasante) is also co-leader of the Thematic Working Group "Economic and monetary valuation" and ( <a href="http://www.es-partnership.org">www.es-partnership.org</a> ). The work is also in line with the current Future Earth Program, the Natural Capital Project ( <a href="http://www.naturalcapitalproject.org/">http://www.naturalcapitalproject.org/</a> ), ++ and numerous scientific and regulatory governmental and university's departments in ICES countries.