

## Working Group on Fisheries-Induced Evolution (WGEVO)

2015/MA2/SSGEPD09 The Working Group on Fisheries-Induced Evolution (WGEVO), chaired by Bruno Ernande, France, will work on ToRs and generate deliverables as listed in the table below.

	MEETING DATES	VENUE	REPORTING DETAILS	COMMENTS (CHANGE IN CHAIR, ETC.)
Year 2016	18–20 October	Laxenburg, Austria	Interim report by 1 December to SSGEPD	
Year 2017	12–15 June	Laxenburg, Austria	Interim report by 1 August to SSGEPD	
Year 2018	TBA	TBA	Final report two months after the meeting to SCICOM	

## ToR descriptors

ToR	DESCRIPTION	BACKGROUND	SCIENCE PLAN PRIORITIES ADDRESSED	DURATION	EXPECTED DELIVERABLES
a	Provide a forum for international collaboration and exchange of emerging scientific insights on fisheries-induced adaptive changes. The activities of WGEVO will provide ICES with a basis for advice on whether and how the effects of fisheries-induced adaptive change need to be taken into account in ecosystem approach to management.	The ecosystem approach to management is the overarching motive for ICES science and management.	6, 9, 10, 11, 12, 14, 15, 27	Years 1, 2, 3	Organisation of a dedicated Theme session at ICES ASC in Year 3  Provision of summary recommendations about which stocks assessed by ICES are at most risk in terms of fisheries-induced evolution in Year 3
b	Assemble and review empirical evidence of fisheries-induced adaptive change and its consequences for the conservation of biodiversity and sustainable exploitation of marine species within an ecosystem context.	a) Research beyond current Science Plan requirements b) Research for MSFD and GES requirements c) No requirements from other WGs	10, 27	Years 2, 3	1 ICES publication for general audience and 1 Wikipedia article in Year 3
c	Apply the Evolutionary Impact Assessment (EvoIA) framework to specific case studies in order to (i) evaluate the impact of existing management measures on fisheries-induced adaptive change; (ii) relate consequences of fisheries-induced adaptive change to stakeholder utilities and to current management objectives;	a) Research beyond current Science Plan requirements b) Research for MSFD and GES requirements c) Links with relevant Assessment WGs required	6, 12, 14, 15	Years 1, 2, 3	1 peer-reviewed publication over the 3 years

	(iii) evaluate possible more specific objectives for managing fisheries-induced adaptive change.				
d	Develop scientific and methodological tools to monitor and respond appropriately to risks to biodiversity and sustainable exploitation posed by fisheries-induced adaptive change, with a particular emphasis on making these tools readily available for a broader range of scientists and managers.	a) Research beyond current Science Plan requirements b) Research for MSFD and GES requirements c) Links with relevant Assessment WGs required	6, 9, 11	Years 1, 2, 3	Tools (R-scripts), accompanied by 1 peer-reviewed publication over the 3 years

## Summary of the Work Plan

Year 1	R scripts and table of selection differentials estimates for a range of exploited fish stocks
Year 2	Review of selection differentials of exploited fish stocks
Year 3	ICES document providing an overview of fisheries-induced evolution for a wider scientific audience, and Wikipedia article

## Supporting information

Priority	The activities of the Working Group on Fisheries-induced Evolution will provide ICES with a basis for advice on whether and how the effects of fisheries-induced adaptive change need to be taken into account in present and future management. Such advice is needed in relation with the precautionary approach, the ecosystem approach, biodiversity conservation, and the evaluation of risk and uncertainty.
Resource requirements	The research activities providing input to WGEVO are ongoing, and corresponding resources have been committed by the engaged institutions. The administrative resources for convening the annual WGEVO meeting are negligible.
Participants	WGEVO is normally attended by 5–10 members and guests.
Secretariat facilities	None.
Financial	No financial implications.
Linkages to ACOM and group under ACOM	Linkage to Assessment WGs under ACOM
Linkages to other committees or groups	Linkage to SCICOM
Linkages to other organization	None.