ICES/IOC/IMO Working Group on Ballast and Other Ship Vectors (WGBOSV)

2015/MA2/SSGEPI05 The ICES/IOC/IMO Working Group on Ballast and Other Ship Vectors (WGBOSV),

chaired by Sarah Bailey, Canada, will work on ToRs and generate deliverables as listed in the Table below.

	MEETING DATES	VENUE	R EPORTING DETAILS	Comments (change in Chair, etc.)
Year 2016	14–16 March	Olbia, Italy	Interim report by 15 April to SSGEPI	
Year 2017	15–17 March	Woods Hole, USA	Interim report by 25 April to SSGEPI	
Year 2018	March	TBD	Final report by DATE to SSGEPI, SCICOM	

ToR descriptors

ToR	DESCRIPTION	Background	SCIENCE PLAN TOPICS ADDRESSED	DURATION	EXPECTED DELIVERABLES
a	Conduct strategic planning (identify and develop collaborative activities advance and standardiz methods, etc.) to advance research and addres knowledge gaps through review of national activities and to respond to new requests for advice.	g ICES strategic plan Goal 2: o understand the relationship s, between human activities e (e.g., shipping) and marine e ecosystems to estimate s pressures and impacts, and n develop science-based s sustainable pathways; and v Goal 3: Evaluate and advise on options for the sustainable use and protection of marine ecosystems. Potential advice requests from agencies such as OSPAR.	17, 25, 27	3 years	Report to ICES. Respond to advice requests, as applicable.
b	Evaluate methods fo collection and analysis o ballast water samples tr inform national and/o international procedures fo compliance testing of ballas water management systems	r The Convention for the f Control and Management of o Ships' Ballast Water and r Sediments, (2004) (BWMC) r aims to minimize the t transfer of harmful aquatic organisms with the ballast water from ships. It is imperative that the BWMC is implemented in a scientifically valid and standardized way globally. There are science and advisory requirements related to validated methods and procedures.	17, 27, 31	3 years	Comparative methods mnauscript submitted to a peer-reviewed scientific journal

c	Evaluate methods for, an outcomes of, type approv and operational testing ballast water managemen systems to inform nation and/or internation procedures for type approv of such systems	d As previous al of nt al al al	17, 27, 31	3 years	Exchange information with other scientific organ- izations examining such methods through a Theme Session at a relevant scien- tific conference
d	Investigate and evalua climate change impacts of the establishment an spread of ship-mediate nonindigenous specie particularly with respect the Arctic	te This work will be carried on jointly with WGIT ad Contributes to SICCME ad ICES high-priority ad s, area 'Arctic research' to	l out 3, 10, 13, 17 MO. and ction	3 years	At least one manuscript submitted to a peer- reviewed scientific journal evaluating risk of ship- mediated invasions to the Arctic
e	Investigate and evalua methods/technologies assess risks of, to minimiz extent of, and to respond vessel biofouling to infor- national and/or internation policies or guidelines	te Ships' biofouling is, to ballast water, a pri ze bioinvasion vector. to management of inva m vectors is the only effe al way to reduce risks of invasions, addres biofouling issues is of priority in bioinvas management.	with 11, 13, 17 may As ision ctive new ising high ions	3 years	Input on the general applicability or otherwise of such methods/technologies to IMO or national regulators through meeting participation, correspondence group and/or technical paper
f	Evaluate the curren role/importance of shippir in relation to other invasic vectors/pathways globally	nt This work will be carried or gointly with WGITMO. on invasion of non-indigen species is truly of gl nature, such a review sh have global cover Although shipping has claimed as the important invasion ve there are regi specificities and temporal considerations.	l out 17, 27 As nous obal ould rage. been nost ctor, onal also	3 years	Review manuscript submitted to a peer- reviewed scientific journal

Summary of the Work Plan

Year 1	Working on all ToRs, but with special focus on ToRs a, c, and d.
Year 2	Working on all ToRs, but with special focus on ToRs b, e, and f.
Year 3	Report on all ToRs

Supporting information

Priority	The work of the Group forms the scientific basis for essential advice related to the movement of harmful aquatic organisms and pathogens via ballast water and other shipping vectors. As a joint working group it also follows and supports related work within the IMO and IOC.
Justification of venue (in a non-ICES member country)	As marine bioinvasions and their management is a global issue, WGBOSV/WGITMO are continuously aiming to enhance connections with scientists from non-ICES area from various regions and seas globally. In order to continue strenghtening cooperation with the Mediterranean Sea scientists, who annually participate in

	WGITMO meetings, and to fulfil MoU between ICES and CIESM, WGBOSV/WGITMO will meet in 2016 in Italy.	
Resource requirements	The research programmes which provide the main input to this group are already underway, with resources provided by national governments and scientific funding agencies. The additional resources required to undertake activities in the framework of this group are negligible.	
Participants	The Group is normally attended by some 25-35 members and guests, but has more than 65 members in total.	
Secretariat facilities	None.	
Financial	No financial implications.	
Linkages to ACOM and group under ACOM	The group will serve as primary respondent to incoming advice requests on various issues related to ship-mediated introductions.	
Linkages to other committees of groups	There is a very close working relationship with WGITMO. Potential or occasional linkage with WGBIODIV, WGHABD, WGIMT, WGMABS, WGPME and WGZE.	
Linkages to other organizations	International Oceanographic Commission (IOC), International Maritime Organization (IMO), North Pacific Marine Science Organization (PICES). In addition, the outcomes are relevant to other national and international organizations involved in the development of regulatory policies.	