

# Editorial

For a third year running the IWC Scientific Committee meeting was forced to be held online (25 April to 13 May 2022) because of the continued difficulties associated with the COVID-19 pandemic. The IWC was only able to hold a Commission virtual special meeting (9-10 September 2021) so this Scientific Committee meeting adopted the nomenclature of SC68D. During the intersessional period, having served his term, Robert Suydam stepped down as Chair to be replaced by Alex Zerbini with Lyndsay Porter taking on the role of Vice-Chair.

Again the wide range of time zones occupied by committee members, allowed for just two 1.5 hour sessions daily and the meeting was spread over three working weeks with no weekend sessions. Plenary items were dealt with through a combination of dedicated online sessions and written reports.

As with the previous two virtual meetings the decreased time for discussion was reflected in a much reduced agenda. Given the need to progress important technical work the sub-committee on Implementation Reviews and Simulation Trials (IST) met in-person in Copenhagen Denmark, shortly after the main Committee meeting, 25-27 May 2022. The sub-committee's work was summarised and included in the main report. The full Committee was provided with the opportunity to comment on all sections of the draft report and the final text was agreed by the Heads of Delegation. The report from the SC68D meeting kept the revised layout used for the previous two years with summaries of the sub-group discussions and their recommendations combined into the main report text rather than the usual annexes.

*Iain Staniland*  
Editor  
Cambridge, March 2023

*Cover image*

The cover image shows a vaquita. With thanks to Paula Olson of NOAA.



# Contents

<b>1</b>	<b>Scientific Committee Report*</b>		
191	Annex A: List of Participants	284	Annex L: State of the Cetacean Environment Report (SOCER) 2022
195	Annex B: Agenda	306	Annex M: Intersessional E-mail Groups
201	Annex C: List of Documents	315	Annex N: Database Request Proforma
207	Annex D: An Update on the 2023/2024 IWC Budget and Implications for the Scientific Committee	317	Annex O: Status of DNA Registers
221	Annex E: Report of the Abundance Steering Group	320	Annex P: List of Recommendations Relating to Hector's and Māui Dolphins
245	Annex F: Catches Reported for the 2021 Season	323	Annex Q: Recommendations for Vaquitas
246	Annex G: Extinction Initiative - Next Steps		
250	Annex H: Bycatch and Ship Strikes of Large Cetaceans Reported in the National Progress Report Database	<b>331</b>	<b>Reports of Intersessional Meetings</b>
271	Annex I: Bycatch of Small Cetaceans Recorded in the Progress Reports Database	331	Report of the IWC Climate Change Workshop (SC/68D/REP/01)
282	Annex J: Written Statement from the UK Government Condemning Russia	365	Report of the Pollution 2025 IWC Intersessional Workshop (SC/68D/REP/02)
283	Annex K: Statements on the Agenda	389	Report of the IWC-POWER Planning Meeting 2021 (SC/68D/REP/03)

\*Detailed contents for the Scientific Committee Report section (pp.1-190) are given on the next pages.



# **Report of the Scientific Committee**

**Virtual Meeting, 25 April-13 May 2022**



# Scientific Committee Report Contents

<i>Page</i>	<i>Item</i>				
1.	1-3.	<b>Introductory Items</b>	51.	9.	<b>Stocks that Are or Have Been Suggested to be the Subject of Conservation Management Plans (CMPs)</b>
4.	4.	<b>Cooperation with Other Organisations</b>			
11.	5.	<b>General Assessment and Modelling Issues</b>	51.	9.1	Stocks with existing CMPs: new information and progress with previous recommendations
11.	5.1	Use of ISTs for consideration of species' and populations' status	57.	9.2	Progress with identified priorities
11.	5.2	Progress on previous recommendations	61.	9.3	Budget requests
11.	5.3	Biennial workplan	61.	9.4	Biennial workplan
11.	6.	<b>AWMP and RMP Implementation-Related Matters</b>	62.	10.	<b>Stock Definition and DNA Testing</b>
12.	6.1	<i>AWMP Implementation Review</i> for the West Greenland bowhead whale hunt	62.	10.1	DNA testing and advice on stock structure to other groups as required
14.	6.2	<i>RMP Implementation Review</i> for North Atlantic common minke whales	66.	10.2	DNA data quality and genetic analysis guidelines
18.	6.3	Planning for the <i>RMP Implementation Review</i> for North Atlantic fin whales	67.	10.3	Recommendations on the avoidance of sample depletion
18.	6.4	Biennial workplan	67.	10.4	Review terminology used for stock structure related terms used within the IWC
19.	6.5	Long-term workplan	68.	10.5	New genetic approaches of use to the Scientific Committee in addition to stock structure issues
20.	7.	<b>Stocks Subject to Aboriginal Subsistence Whaling (ASW)</b>	68.	10.6	Annual workplan
20.	7.1	New information and progress on recommendations	68.	11.	<b>Cetacean Abundance Estimates and Stock Status</b>
23.	7.2	Biennial workplan	69.	11.1	Review of abundance estimates
23.	8.	<b>Whale Stocks Not Subject to Directed Takes by Contracting Governments</b>	76.	11.2	Update and review abundance table maintained by the IWC
23.	8.1	Comprehensive or In-Depth Assessments	79.	11.3	Review and refine the abundance review process
32.	8.2	Potential new assessments: progress on previous recommendations and prioritised workplan (SH and NH)	81.	11.4	Methodological issues
47.	8.3	New information for other northern stocks	82.	11.5	Provide advice to the Commission on the status of stocks
48.	8.4	New information (if provided) for other southern stocks	87.	11.6	Review and provide advice on surveys (past and future)
			87.	11.7	Progress on previous recommendations
			88.	11.8	Biennial workplan

<b>88.</b>	<b>12.</b>	<b>Bycatch and Entanglements</b>	<b>114.</b>	<b>14.7</b>	Habitat alteration as anthropogenic impact on cetaceans
88.	12.1	IWC's Bycatch Mitigation Initiative	114.	14.8	State of the Cetacean Environment Report (SOCER)
89.	12.2	Collaboration on bycatch mitigation with IGOs	115.	14.9	One Health
90.	12.3	Review new methods and estimates of bycatch and entanglement rates, risks and mortality	116.	14.10	Biennial workplan
91.	12.4	Reporting of bycatch and entanglements (both large and small cetaceans) including National Progress Reports	<b>116.</b>	<b>15.</b>	<b>Ecosystem Modelling</b>
91.	12.5	Review mitigation measures for preventing bycatch and entanglement	116.	15.1	Workshop on the Role of Cetaceans in Ecosystem Functioning: Gap Analysis
93.	12.6	Review studies examining the implications of effort reductions on cetacean bycatch, fisheries economics and yields	117.	15.2	Review results of ecosystem modelling in the Antarctic Ocean and northeast Atlantic Ocean
94.	12.7	Review of topics related to Hector's and Maui dolphins in New Zealand	117.	15.3	Review progress on estimating pre-exploitation and current abundance of large whale populations
94.	12.8	Consider definition of $R_{max}$ for small cetaceans for use by the Scientific Committee (joint session with IST)	118.	15.4	Progress on multi-species distribution models (MSDMS)
95.	12.9	Progress on previous recommendations	120.	15.5	Progress with development of individual-based energetic models (IBEMs)
98.	12.10	Biennial workplan	122.	15.6	Modelling of competition among whales and relationships between whales and prey
			122.	15.7	Standing topics
<b>98.</b>	<b>13.</b>	<b>Ship Strikes</b>	122.	15.8	Progress on previous recommendations
98.	13.1	Review new methods and estimates of rates of ship strikes, risk of ship strikes and mortality (including review progress on ship strike database)	122.	15.9	Biennial workplan
100.	13.2	Mitigation of ship strikes in high risk areas	<b>123.</b>	<b>16.</b>	<b>Small Cetaceans</b>
101.	13.3	Cooperation with IMO Secretariat and relevant IMO committees	123.	16.1	Small cetacean use as aquatic wildmeat
101.	13.4	Review progress for obtaining Automated Information Systems (AIS) data	124.	16.2	Potential CMP small cetaceans
101.	13.5	Progress on previous recommendations	125.	16.3	Previous recommendations
101.	13.6	Biennial workplan	138.	16.4	South Pacific island small cetaceans
			143.	16.5	Review direct takes and live captures of small cetaceans
			145.	16.6	Status of the Voluntary Fund for small cetacean conservation research
			145.	16.7	Workplan
<b>102.</b>	<b>14.</b>	<b>Environmental Concerns</b>	<b>146.</b>	<b>17.</b>	<b>Whale Watching</b>
102.	14.1	Chemical pollution	146.	17.1	Assess the impacts of whale watching and swim-with-whale operations on cetaceans
104.	14.2	Diseases of concern	146.	17.2	Update on IWC's General Principles for Whale Watching after intersessional discussion with the Conservation Committee and Secretariat
108.	14.3	Strandings and mortality events			
110.	14.4	Climate change			
112.	14.5	Underwater noise			
113.	14.6	Marine debris			



147.	17.3	Progress with regional reviews of whale watching	161.	22.4	National cruises that require or request IWC oversight
148.	17.4	Collaborative work within the IWC	161.	22.5	Review and provide advice on plans for future surveys
149.	17.5	Progress on previous recommendations	161.	22.6	Other cruise plans and reports
149.	17.6	Biennial workplan	162.	22.7	Biennial workplan
<b>150.</b>	<b>18.</b>	<b>Whale Sanctuaries</b>	<b>163.</b>	<b>23.</b>	<b>Scientific Committee Budget for the Current and Next Biennium</b>
150.	18.1	Updates from relevant sub-committees on new information relevant to the Southern Ocean Sanctuary management plan	163.	23.1	Status of funded research, workshop proposals, data processing and computing needs
152.	18.2	New information for other sanctuaries			
153.	18.3	Progress on previous recommendations	<b>171.</b>	<b>24.</b>	<b>Committee Priorities for the Biennium 2023-24 and Initial Agenda for 2023</b>
153.	18.4	Biennial workplan			
<b>153.</b>	<b>19.</b>	<b>Extinction Initiative</b>	<b>171.</b>	<b>25.</b>	<b>Working Methods of the Committee</b>
<b>154.</b>	<b>20.</b>	<b>IWC List of Recognised Species</b>	171.	25.1	Update on Rules of Procedure and Handbook of the Scientific Committee
<b>154.</b>	<b>21.</b>	<b>IWC Database and Catalogues</b>	171.	25.2	Reporting to the Commission and related matters
154.	21.1	Guidelines for IWC catalogues and photo-ID databases	172.	25.3	Capacity building and succession plan for Scientific Committee
154.	21.2	Progress with existing or proposed new catalogues	172.	25.4	Update on Date Availability requests and consideration of potential updates/clarifications
155.	21.3	Progress with existing IWC databases	172.	25.5	Committee involvement in the IWC Database of Recommendations
156.	21.4	Potential future IWC databases	172.	25.6	Governance Review
157.	21.5	Biennial workplan	173.	25.7	Joint Conservation Committee-Scientific Committee Working Group
<b>158.</b>	<b>22.</b>	<b>IWC Multinational Research Programmes and National Research Cruises that Require IWC Endorsement</b>	<b>173.</b>	<b>26.</b>	<b>Publications</b>
158.	22.1	IWC-POWER and cooperation with Japan	<b>173.</b>	<b>27.</b>	<b>Adoption of Report</b>
159.	22.2	Southern Ocean Research Partnership (IWC-SORP)	<b>174.</b>		<b>References</b>
160.	22.3	IWC-ATLAFCO collaboration for capacity building and cetacean surveys			

