

Supplement Contents

This Supplement to the Journal contains the Report of the Scientific Committee from its Annual Meeting held from 10-23 May 2019 in Nairobi, Kenya. It also contains: the Report of the 2018 Meeting of the IWC-POWER Technical Advisory Group (TAG), held in October 2018 in Tokyo, Japan; the Report of the Planning Meeting for the 2019 IWC-POWER Cruise, held in October 2018 in Tokyo, Japan; the Report of the Joint US Office of Naval Research, International Whaling Commission and US National Oceanic and Atmospheric Administration Workshop on Cetacean Tag Development, Tag Follow-up and Tagging Best Practices, held in September 2017 in Silver Spring, Maryland, USA and June 2018 in Seattle, WA, USA; and the Final Report of the First Intersessional Workshop on the Implementation Review for Western North Pacific Minke Whales, held in February 2019 in Tokyo, Japan.

PLENARY REPORT*	1
Annex A: List of Participants.	66
Annex B: Agenda.	68
Annex C: List of Documents.	71
Annex D: Report of the Sub-Committee on <i>Implementation Reviews and Simulation Trials</i> .	77
Annex E: Report of the Sub-Committee on Aboriginal Subsistence Whaling.	107
Annex F: Report of the Sub-Committee on In-Depth Assessments.	110
Annex G: Report of the Sub-Committee on Northern Hemisphere Whale Stocks	121
Annex H: Report of the Sub-Committee on Other Southern Hemisphere Whale Stocks	128
Annex I: Report of the Working Group on Stock Definition and DNA Techniques.	157
Annex J: Report of the Working Group on Non-Deliberate Human-Induced Mortality of Cetaceans.	179
Annex K: Report of the Sub-Committee on Environmental Concerns.	205
Annex L: Report of the Working Group on Ecosystem Modelling Approaches.	220
Annex M: Report of the Sub-Committee on Small Cetaceans.	227
Annex N: Report of the Sub-Committee on Whale Watching.	247
Annex O: Report of the Sub-Committee on Cetacean Stocks that are or might be the Subject of Conservation Management Plans (CMPs)	260
Annex P: Scientific Committee Procedures for Submission, Review and Validation of Abundance Estimates.	273
Annex Q: Report of the Standing Working Group on Abundance Estimates, Stock Status and International Cruises	277
Annex R: Report of the Working Group on Whale Sanctuaries.	300
Annex S: Scientific Committee Use of the IWC Database of Recommendations.	302
Annex T: Intersessional Email Groups.	304
Annex U: Statement from Japan Regarding Japan's Withdrawal from IWC	307
Annex V: Statements on the Agenda.	308
REPORT OF THE 2018 MEETING OF THE IWC-POWER TECHNICAL ADVISORY GROUP (TAG) (SC/68A/Rep01).	311
REPORT OF THE PLANNING MEETING FOR THE 2019 IWC-POWER CRUISE (SC/68A/Rep02).	333
REPORT OF THE JOINT US OFFICE OF NAVAL RESEARCH, INTERNATIONAL WHALING COMMISSION AND US OCEANIC AND ATMOSPHERIC ADMINISTRATION WORKSHOP ON CETACEAN TAG DEVELOPMENT, TAG FOLLOW-UP AND TAGGING BEST PRACTICES (SC/68A/Rep03).	347
FINAL REPORT OF THE FIRST INTERSESSIONAL WORKSHOP ON THE <i>IMPLEMENTATION REVIEW</i> FOR WESTERN NORTH PACIFIC MINKE WHALES (SC/68A/Rep04).	373

*Detailed contents for the Plenary Section (pp.1-65) are given on the next page.

PLENARY SECTION: CONTENTS

1-3.	Introductory items	1
4.	Cooperation with other organisations	3
5.	General assessment and modelling issues.	8
5.1	Evaluate the energetics based model and the relationship between MSYR1+ and MSYRmat.	8
5.2	Implications of <i>ISTs</i> for consideration of species' and populations' status	8
5.3	Progress on previous recommendations and on the work plan.	8
6.	RMP – <i>Implementation</i> -related matters.	8
6.1	Completion of the <i>Implementation Review</i> of western North Pacific Bryde's whales	8
6.2	<i>Implementation Review</i> of western North Pacific common minke whales.	9
6.3	Work plan.	12
7.	AWMP <i>Implementation</i> -related matters.	12
7.1	<i>SLA</i> development for the common minke whales off East Greenland	12
7.2	Progress with testing the remaining carryover and interim relief allocation provisions for some <i>SLAs</i> and consequent updates to the Aboriginal Whaling Scheme (AWS)	12
7.3	Preparation for 2020 <i>Implementation Review</i> for North Pacific gray whales.	13
7.4	Work plan.	13
8.	Stocks subject to Aboriginal Subsistence Whaling (ASW).	13
8.1	New information and progress on recommendations	14
8.2	Progress with previous recommendations.	14
8.3	Work plan.	14
9.	Whale stocks not subject to directed takes	14
9.1	Comprehensive or In-depth assessments.	14
9.2	Potential new assessments, progress on recommendations and work plan	16
9.3	New information and work plan for other Northern Hemisphere stocks.	21
9.4	New information and work plan for other Southern Hemisphere stocks.	22
10.	Stocks that are or have been suggested to be the subject of Conservation Management Plans	22
10.1	Stocks with existing CMPs: new information and progress with past recommendations.	23
10.2	Progress with identified priorities.	24
10.3	High priority CMP candidates.	25
10.4	Work plan.	26
11.	Stock definition and DNA testing.	26
11.1	Advice on stock structure to other sub-groups	26
11.2	New genetic (and other) methods for species, stocks and individual identification.	27
11.3	IWC DNA data quality and genetic analyses guidelines	27
11.4	Reference databases and standards for diagnostic DNA registries.	28
11.5	Other matters.	28
11.6	Work plan.	29
12.	Cetacean abundance estimates and stock status.	29
12.1	Summary of abundance estimates and update of IWC consolidated table.	29
12.2	Methodological issues.	29
12.3	Consideration of the status of stocks.	30
12.4	Work plan 2020.	30
13.	Bycatch and entanglements	30
13.1	Progress with the IWC Bycatch Mitigation Initiative.	30
13.2	Review new methods and estimates of entanglement rates, risks and mortality (large whales)	31
13.3	Mitigation measures for preventing large whale entanglement.	32
13.4	Review new methods and estimates of bycatch rates, risks and mortality (small cetaceans)	32
13.5	Scientific aspects of mitigation measures for small cetaceans.	34
13.6	Review of information in National Progress Reports on bycatch and entanglements.	34
13.7	Work plan.	34
14.	Ship strikes.	35
14.1	Review new methods and estimates of rates of ship strikes, risk of ship strikes and mortality (including review of progress on the IWC ship strikes database)	35
14.2	Mitigation of ship strikes in high risk areas.	35
14.3	Co-operation with IMO Secretariat and relevant IMO Committees.	37
14.4	Work plan.	37
15.	Environmental concerns	37
15.1	Pollution.	37
15.2	Diseases of concern	38
15.3	Strandings and mortality events	38
15.4	Noise.	39
15.5	Update on other standing topics and previous recommendations.	39
15.6	Other related information	40
15.7	Work plan.	40

16.	Ecosystem modelling	40
16.1	Co-operation with CCAMLR on multi-species modelling including progress with workshop(s).	40
16.2	Progress on species distribution models (SDMs) and ensemble averaging, including preparation of guidelines	40
16.3	Modelling of competition among whales, including progress with IBEMs.	41
16.4	Standing topics.	41
16.5	Progress on previous recommendations.	41
16.6	Work plan	41
17.	Small cetaceans	42
17.1	Review of small cetaceans of Africa	42
17.2	Poorly documented takes for food, bait or cash and changing patterns of use.	43
17.3	Updates from intersessional groups, including the Small Cetacean Task Team.	43
17.4	Review of takes of small cetaceans.	43
17.5	Status of the Voluntary Fund for Small Cetacean Conservation Research.	44
17.6	Progress on previous recommendations.	44
17.7	Work plan and budget requests.	46
18.	Whale watching	46
18.1	Assess the impact of whale watching on cetaceans.	46
18.2	Platforms of opportunity and citizen science.	47
18.3	Whale watching locations of interest.	47
18.4	Whale Watching Handbook.	48
18.5	Update of the whale watching guiding principles.	49
18.6	Review progress on scientific recommendations.	49
18.7	Other matters.	49
18.8	Work plan.	49
19.	Special permits.	49
19.1	NEWREP-A.	49
19.2	NEWREP-NP.	49
19.3	JARPN II consolidated report	50
20.	Whale sanctuaries	51
20.1	Review progress on Southern Ocean Sanctuary Management Plan.	51
20.2	Receive new information on sanctuaries.	51
20.3	Other.	51
20.4	Work plan.	51
21.	Workshop on cetacean tag development and guidelines for tagging best practices.	51
22.	IWC list of recognised species.	52
23.	IWC databases and catalogues.	52
23.1	Progress with existing or proposed new catalogues.	52
24.	IWC multinational research programmes and national research cruises that require endorsement	53
24.1	IWC-POWER.	53
24.2	Southern Ocean Research Partnership (IWC-SORP).	53
24.3	National cruises that required IWC oversight.	54
24.4	Work plan.	54
25.	Scientific Committee budget for the current biennium.	54
25.1	Status of funded research, Workshop proposals, data processing and computing needs.	54
25.2	Proposed budget for 2020.	55
26.	Committee priorities and initial agenda for 2020.	58
27.	Working methods of the Committee.	58
27.1	Update on Rules of Procedure for the Scientific Committee and working methods.	58
27.2	Biennial reporting and related matters including development of the budget in light of the timing of the Commission's financial year and longer-term planning	59
27.3	Succession plan for key Scientific Committee experts	59
27.4	Update on data availability requests and consideration of potential updates/clarifications	59
27.5	Committee use of the IWC database of recommendations.	60
27.6	Matters related to 'Annex P' (Special Permit process).	60
27.7	Matters related to the 'Governance Review'.	60
27.8	Implications to the Scientific Committee of Japan's withdrawal from the IWC.	60
27.9	Work plan.	62
28.	Publications.	62
29.	Election of Officers.	62
30.	Adoption of Report.	62