

# **Report of the Scientific Committee**

**Bled, Slovenia, 24 April-6 May 2018**

**Annex A: List of Participants**

**Annex B: Agenda**

**Annex C: List of Documents**

**This report is presented as it was at SC/67b.  
There may be further editorial changes (e.g. updated references, tables, figures)  
made before publication.**

**International Whaling Commission**

**Bled, Slovenia, 2018**



# Annex A

## List of Participants

### ARGENTINA

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### AUSTRALIA

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Mike Double

Paula Perrett

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### AUSTRIA

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### BELGIUM

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Andre Barreto

Artur Andriolo

Camila Domit

Carlos Hugo Suarez Sampaio

Fabia Luna

Juliana Di Tullio

Luciano Dalla Rosa

Milton Marcondes

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### DENMARK

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### FRANCE

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### GERMANY

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Elke Burkhardt

### GUINEA, Rep. of

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### ICELAND

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Thorvaldur Gunnlaugsson (AH)

### ITALY

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Kazufumi Aoki

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Genta Yasunaga

Hideki Moronuki

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Mioko Taguchi

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Yoshihiro Fujise

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Hiroko Yasokawa (I)

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Hyun Woo Kim (AH)

Eunho Kim

Eun-Mi Kim

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Melania Cosentino

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Armando Jaramillo-Legorreta (H)

### NETHERLANDS

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Nils Øien

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### PORTUGAL

Marina Sequeira (H)

Luis António de Andrade Freitas (AH)

### RUSSIAN FEDERATION

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Pavel Gushcherov

Sergei Zagrebelnyi

Dennis Litovka

Natalia Slugina

Olga Safonova

### SLOVENIA

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### SPAIN

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#### **INVITED PARTICIPANTS**

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#### **IWC Secretariat**

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Marion Hughes  
Mark Tandy  
Sarah Ferriss  
Sarah Smith  
Stella Duff

(I)=Interpreter  
(H)=Head of Delegation  
(AH)=Alternate Head of  
Delegation)

# Annex B

## Agenda

### 1. INTRODUCTORY ITEMS

- 1.1 Chair's welcome and opening remarks
- 1.2 Appointment of rapporteurs
- 1.3 Meeting procedures and time schedule
- 1.4 Establishment of sub-committees and Working Groups
- 1.5 Computing arrangements

### 2. ADOPTION OF AGENDA

### 3. REVIEW OF AVAILABLE DATA, DOCUMENTS AND REPORTS

- 3.1 Documents submitted
- 3.2 National Progress Reports on research
- 3.3 Data collection, storage and manipulation

### 4. COOPERATION WITH OTHER ORGANISATIONS

- 4.1 African States Bordering the Atlantic Ocean (ATLAFCO)
- 4.2 Arctic Council
- 4.3 Convention on Biological Diversity (CBD)
- 4.4 Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR)
- 4.5 Convention on the Conservation of Migratory Species (CMS)
  - 4.5.1 Scientific Council
  - 4.5.2 Conference of Parties
  - 4.5.3 Agreement on Small Cetaceans of the Baltic and North Seas (ASCOBANS)
  - 4.5.4 Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and Contiguous Atlantic Area (ACCOBAMS)
- 4.6 Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES)
- 4.7 Food and Agriculture Organisation of the United Nations (FAO)
- 4.8 Inter-American Tropical Tuna Commission (IATTC)
  - 4.8.1 Agreement on the International Dolphin Conservation Program (AIDCP)
- 4.9 International Committee on Marine Mammal Protected Areas (ICMMPA)
- 4.10 International Council for the Exploration of the Sea (ICES)
- 4.11 International Maritime Organisation (IMO)
- 4.12 International Union for the Conservation of Nature (IUCN)
- 4.13 North Atlantic Marine Mammal Commission (NAMMCO)
- 4.14 North Pacific Marine Science Organisation (PICES)
- 4.15 Protocol on Specially Protected Areas and Wildlife (SPAW) of the Cartagena Convention for the Wider Caribbean

### 5. GENERAL ASSESSMENT ISSUES WITH A FOCUS ON THOSE RELATED TO THE REVISED MANAGEMENT PROCEDURE (RMP)

- 5.1 Evaluate the energetics-based model and the relationship between  $MSYR_{1+}$  and  $MSYR_{mat}$
- 5.2 Implications of ISTs for consideration of species' and populations' status
- 5.3 General consideration of how to evaluate the effect of special permit catches on stocks
- 5.4 Work plan 2019-20

### 6. RMP – IMPLEMENTATION-RELATED MATTERS (RMP)

- 6.1 Completion of the *Implementation Review* of western North Pacific Bryde's whales
- 6.2 Start of the *Implementation Review* of western North Pacific common minke whales
- 6.3 Workplan 2019-20

### 7. ABORIGINAL SUBSISTENCE WHALING MANAGEMENT PROCEDURE (AWMP)

- 7.1 SLA development for the Greenlandic hunts
  - 7.1.1 Fin whales
  - 7.1.2 Common minke whales
  - 7.1.3 Bowhead whales
- 7.2 Aboriginal whaling management scheme
- 7.3 *Implementation Reviews*
  - 7.3.1 B-C-B bowhead whales
  - 7.3.2 Review schedule for next six years
- 7.4 Workplan 2019-20

## 8. STOCKS SUBJECT TO ABORIGINAL SUBSISTENCE WHALING INCLUDING MANAGEMENT ADVICE (AWMP)

- 8.1 Eastern Canada/West Greenland bowhead whales
- 8.2 North Pacific gray whales
- 8.3 Bering-Chukchi-Beaufort Seas bowhead whale
- 8.4 Common minke whale stocks off East Greenland
- 8.5 Common minke whale stocks off West Greenland
- 8.6 Fin whales off West Greenland
- 8.7 Humpback whales off West Greenland
- 8.8 Humpback whales off St. Vincent and The Grenadines

## 9. WHALE STOCKS NOT SUBJECT TO DIRECTED TAKES

- 9.1 In-depth Assessments (IA)
  - 9.1.1 Comprehensive Assessment of North Pacific humpback whales
  - 9.1.2 In-depth Assessment of North Pacific sei whales
  - 9.1.3 In-depth Assessment of Indo-Pacific Antarctic minke whales
  - 9.1.3 Workplan 2019-20
- 9.2 Evaluation for potential new In-Depth assessments
  - 9.2.1 North Pacific blue whales (NH)
  - 9.2.2 Non-Antarctic Southern Hemisphere blue whales (SH)
  - 9.2.3 Antarctic blue whales (Areas III and IV) (SH)
  - 9.2.4 Southern Hemisphere fin whales (SH)
  - 9.2.5 North Atlantic sei whales (NH)
  - 9.2.6 North Atlantic right whales (NH)
  - 9.2.7 North Pacific right whales (NH)
  - 9.2.8 Workplan 2019-20
- 9.3 New information and workplan for other northern stocks (*NH*)
  - 9.3.1 North Pacific fin whales
  - 9.3.2 Omura's whale
  - 9.3.3 North Atlantic Bryde's whales
  - 9.3.4 North Atlantic blue whales
  - 9.3.5 North Atlantic humpback whales
  - 9.3.6 North Atlantic bowhead whales not subject to aboriginal subsistence whaling
  - 9.3.7 North Pacific bowhead whales not subject to aboriginal subsistence whaling
  - 9.3.8 North Pacific sperm whales
  - 9.3.9 Other stocks - Northern Indian Ocean sperm whales
  - 9.3.10 Workplan 2019-20
- 9.4 New information and workplan for other Southern stocks (*SH*)
  - 9.4.1 Southern Hemisphere sei whales
  - 9.4.2 Southern Hemisphere humpback whales
  - 9.4.3 Southern Hemisphere right whales not the subject of CMPs
  - 9.4.4 Antarctic minke whales
  - 9.4.5 Dwarf minke whales
  - 9.4.6 Southern Hemisphere Bryde's whales
  - 9.4.7 Southern Hemisphere sperm whales
  - 9.4.8 Workplan 2019-20

## 10. STOCKS THAT ARE OR HAVE BEEN SUGGESTED TO BE THE SUBJECT OF CONSERVATION MANAGEMENT PLANS (CMP)

- 10.1 Stocks with existing CMPs
  - 10.1.1 SE Pacific southern right whales
  - 10.1.2 SW Atlantic southern right whales
  - 10.1.3 North Pacific gray whales
  - 10.1.4 Franciscana
- 10.2 Progress with identified priorities
  - 10.2.1 Humpback whales in the northern Indian Ocean including the Arabian Sea
  - 10.2.2 Other species/populations
- 10.3 Workplan 2019-20

## 11. STOCK DEFINITION AND DNA TESTING

- 11.1 DNA testing
  - 11.1.1 Genetic methods for species, stock and individual identification
  - 11.1.2 'Amendments' of sequences deposited in GenBank
  - 11.1.3 Collection and archiving of tissue samples from catches and bycatches
  - 11.1.4 Reference databases and standards for diagnostic DNA registries
- 11.2 Guidelines for DNA data quality and genetic analyses

- 11.2.1 Update DNA quality guidelines to include discussion of NGS data
- 11.3 New statistical and genetic issues concerning stock definition
  - 11.3.1 Simulation tools for spatial structuring (e.g. TOSSM)
  - 11.3.2 PCA, DAPC, and related methods
  - 11.3.3 Terminology
  - 11.3.4 Close-kin mark-recapture
  - 11.3.5 Epigenetic ageing
- 11.4 Update on previous recommendations
- 11.5 Workplan 2019-20
- 12. CETACEAN ABUNDANCE ESTIMATES, STOCK STATUS
  - 12.1 Summary of abundance estimates and update of IWC consolidated table
  - 12.2 Methodological issues
    - 12.2.1 Model-based abundance estimates (and amendments to RMP guidelines)
    - 12.2.2 Review new survey techniques/equipment
  - 12.3 Consideration of the status of stocks
  - 12.4 Update on previous recommendations
  - 12.5 Workplan 2019-20
- 13. BYCATCH AND ENTANGLEMENTS
  - 13.1 Review new estimates of entanglement rates, risks and mortality (large whales)
  - 13.2 Reporting of entanglements and bycatch in National progress reports
  - 13.3 Mitigation measures for preventing large whale entanglement
  - 13.4 Review proposal for global entanglement database
  - 13.5 Estimation of rates of bycatch, risks of, and mortality for small cetaceans
  - 13.6 Scientific aspects of mitigation measures for small cetaceans
    - 13.6.1 The IWC Bycatch Mitigation Initiative
    - 13.6.2 Collaboration with FAO on bycatch related issues
    - 13.6.3 Measures to mitigate bycatch of small cetaceans
  - 13.7 New information on cetacean bycatch in the Western, Central and Northern Indian Ocean
  - 13.8 Update on previous recommendations
  - 13.9 Workplan 2019-20
- 14. SHIP STRIKES
  - 14.1 Review estimates of rates of ship strikes, risk of ship strikes and mortality
    - 14.1.1 Review progress on ship strike database
  - 14.2 Mitigation of ship strikes in high risk areas
    - 14.2.1 Review progress towards assessing and mitigating ship strikes in previously identified high risk areas
    - 14.2.2 Consideration of methods to identify ‘high risk’ areas
  - 14.3 Co-operation with IMO Secretariat and relevant IMO committees
  - 14.4 Update on previous recommendations
  - 14.5 Workplan 2019-20
- 15. ENVIRONMENTAL CONCERNS
  - 15.1 Pollution 2020
    - 15.1.1 Review on intersessional progress on the Pollution 2020 project
    - 15.1.2 Report on mercury in cetaceans
    - 15.1.2 Impact of heavy fuel oils on cetaceans
  - 15.2 Cumulative impacts
  - 15.3 Diseases of concern
  - 15.4 Strandings and mortality events
    - 15.4.1 Update on the IWC Strandings Initiative
    - 15.4.2 New information on unusual mortality events
  - 15.5 Noise
  - 15.6 State of the Cetacean Environment Report – SOCER
  - 15.7 Update on other standing topics
    - 15.7.1 Marine debris
    - 15.7.2 Climate change
  - 15.8 Update on previous recommendations
  - 15.9 Workplan 2019-20
- 16. ECOSYSTEM MODELLING
  - 16.1 Cooperation with CCAMLR on multi-species modelling
    - 16.1.1 Review ecosystem modelling in the Antarctic Ocean
    - 16.1.2 Update on cooperation with CCAMLR, including the plan for a joint SC-CAMLR-IWC SC workshop

- 16.2 Applications of species distribution models (SDMs) and ensemble averaging
  - 16.2.1 Review progress of guideline for SDMs
  - 16.2.2 Review progress of work on SDMs and ensemble modelling
- 16.3 Modelling of competition among whales
- 16.4 Standing topics
  - 16.4.1 Effects of long-term environmental variability on whale populations
  - 16.4.2 Update on body condition analyses for the Antarctic minke whales
  - 16.4.3 Review the information on krill distribution and abundance by NEWREP-A
  - 16.4.4 Ecosystem services
- 16.5 Update on previous recommendations
- 16.6 Workplan 2019-20

## 17. SMALL CETACEANS

- 17.1 Review of small cetaceans in rivers and estuaries of South America
  - 17.1.1 Boto
  - 17.1.2 Tucuxi
  - 17.1.3 Franciscana
  - 17.1.4 Common bottlenose dolphin
- 17.2 Review on progress on *Tursiops* taxonomy
- 17.3 Poorly documented hunts of small cetaceans for food, bait or cash and changing patterns of use
  - 17.3.1 Workshop results
  - 17.3.2 Future plans
- 17.4 Small cetacean task team
  - 17.4.1 Progress on South Asian river dolphins Task Team
  - 17.4.2 How to address emerging issues within the sub-committee
- 17.5 Review takes of small cetaceans
  - 17.5.1 New information on direct takes and live captures
- 17.6 Update on previous recommendations
  - 17.6.1 Māui dolphin
  - 17.6.2 Vaquita
- 17.7 Status of the voluntary fund for small cetacean conservation research
- 17.8 Workplan 2019-20

## 18. WHALE WATCHING<sup>1</sup>

- 18.1 Assess the impacts of whale watching and swim-with-whale operations on cetaceans
  - 18.1.1 Review report of the workshop on Modelling and Assessment of Whale Watching Impacts (MAWI)
  - 18.1.2 Studies on assessing impacts
  - 18.1.3 Potential case-studies: status of whale watching in east Africa and wider Indian Ocean
- 18.2 Five-year strategic plan and joint work with the Conservation Committee
  - 18.2.1 Recommendation on the Conservation Committee new five-year strategic plan for whale watching
  - 18.2.2 Recommendation on the Online whale watching handbook
  - 18.2.3 Revised Terms of Reference for the sub-committee on whale watching
  - 18.2.4 Update on the Carole Carlson Memorial Whale Watching Fund
- 18.3 Platform of opportunity data
- 18.4 Update on previous recommendations
- 18.5 Workplan 2019-20

## 19. SPECIAL PERMITS

- 19.1 General considerations on improving the evaluation process
- 19.2 NEWREP-A
  - 19.2.1 Report on ongoing research
  - 19.2.2 Update on previous recommendations
  - 19.2.3 Committee conclusions and recommendations
- 19.3 JARPN II
  - 19.3.1 Update on previous recommendations
  - 19.3.2 Committee conclusions and recommendations
- 19.4 NEWREP-NP
  - 19.4.1 Report on ongoing research
  - 19.4.2 Update on previous recommendations
  - 19.4.3 Committee conclusions and recommendations
- 19.5 Workplan 2019-20

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<sup>1</sup>In response to a request from the Chair of the Whale Watching Working Group of the Conservation Committee, we have changed our past practice of treating whalewatching as a single word to the use of two words.



- 20. WHALE SANCTUARIES
  - 20.1 Review of the Southern Ocean Sanctuary Management Plan
- 21. SATELLITE TAGGING DEVELOPMENT AND BEST PRACTICES
- 22. IWC LIST OF RECOGNISED SPECIES
- 23. IWC DATABASES AND CATALOGUES
  - 23.1 Guidelines for IWC catalogues and photo-ID databases (PH)
  - 23.2 Progress with existing or proposed new catalogues (PH)
    - 23.2.1 Integration of eastern South and Central Pacific blue, humpback and fin whale photo-catalogues
    - 23.2.2 Southern Hemisphere and Indian Ocean humpback whales catalogues
      - 23.2.2.1 Antarctic Humpback Whale Catalogue (AHCW)
      - 23.2.2.2 Arabian Sea Whale Network's Flukebook
    - 23.2.3 Southern Hemisphere Antarctic and pygmy blue whales: Catalogues and databases
      - 23.2.3.1 Southern Hemisphere Blue Whale Catalogue (SHBWC)
      - 23.2.3.2 Antarctic Blue Whale Catalogue (ABWC)
    - 23.2.4 Southern Hemisphere fin whale photo catalogues
  - 23.3 Progress with existing IWC databases (PH)
    - 23.3.1 IWC databases
    - 23.3.2 National Progress Report database
  - 23.4 Potential future IWC databases
    - 23.4.1 Global database for disentanglement activities
    - 23.4.2 Global bycatch database
    - 23.4.3 Development of simple technical guidelines for new proposals
- 24. IWC MULTINATIONAL RESEARCH PROGRAMMES AND NATIONAL RESEARCH CRUISES THAT REQUIRE IWC ENDORSEMENT
  - 24.1 IWC-POWER
  - 24.2 Southern Ocean Research Partnership (IWC-SORP)
  - 24.3 National cruises that require IWC oversight
- 25. SCIENTIFIC COMMITTEE BUDGET FOR THE CURRENT BIENNUM
  - 25.1 Status of previously funded research, workshop proposals, data processing and computing needs
    - 25.1.1 Funded proposals for the current biennium 2017-18
    - 25.1.2 Funded proposals in previous years still ongoing
    - 25.1.3 Report on funds reallocations and contingencies for the Research Fund, Voluntary Fund for Small Cetaceans and SORP Voluntary Fund
- 26. COMMITTEE PRIORITIES AND INITIAL AGENDA FOR THE BIENNUM 2019-20
- 27. SCIENTIFIC COMMITTEE BUDGET FOR THE BIENNUM 2019-20
  - 27.2 Budget for the next biennium
    - 27.2.1 Invited Participants
    - 27.2.2 Workshops
    - 27.2.3 Modelling/computing
    - 27.2.4 Databases/catalogues
    - 27.2.5 Reports
- 28. WORKING METHODS OF THE COMMITTEE
  - 28.1 Rules of Procedure of the Scientific Committee
  - 28.2 Biennial reporting and related matters
  - 28.3 Additional proposals for revisions to 'Annex P'
  - 28.4 Succession plan for key Scientific Committee experts
  - 28.5 Update on Data Availability requests
  - 28.6 Any other matters
- 29. PUBLICATIONS
- 30. ELECTION OF OFFICERS
- 31. ADOPTION OF REPORT

# Annex C

## List of Documents

### SC/67b/ASI

01. DIALLO, S.T. AND BAMY, I.L. Report of the cetacean sighting survey in the north western Africa coastal waters of COMHAFAT zone (Guinea, Sierra Leone and Liberia). 23pp.
02. COOKE, J.G. Abundance estimates for western North Pacific gray whales for use with stock structure hypotheses of the Range-wide Review of the Population Structure and Status of North Pacific gray whales. 15pp.
03. PALKA, D., CAÑADAS, A., DONOVAN, G., DE FREITAS, L., GUNNLAUGSSON, T., HERR, H., PIKE, G., VÍKINGSSON, G., WEINRICH, M. AND ZERBINI, A.N. Report of the intersessional correspondence group that reviewed the Icelandic humpback whale abundance estimates. 5pp.
04. TYURNEVA, O.Y., YAKOVLEV, Y.M., VERTYANKIN, V.V., VAN DER WOLF, P. AND SCOTT, M.J. Long-term photo-identification studies of gray whales (*Eschrichtius robustus*) offshore northeast Sakhalin Island, Russia, 2002-2017. 16pp.
05. COOKE, J.G., STEEL, D., HAMNER, R.M., CONSTANTINE, R. AND BAKER, C.S. Population estimates and projections of Maui dolphin (*Cephalorhynchus hectori maui*) based on genotype capture-recapture, with implications for management of mortality risk. 16pp.
06. HAKAMADA, T., MATSUOKA, K., MIYASHITA, T. AND PASTENE, L.A. Revised research plan for a dedicated cetacean sighting survey in 2018 and research plan for 2019 under the NEWREP-NP. 13pp.
07. MOGOE, T., YAMAGUCHI, F., KAWABE, S., KATSUMATA, T., KASAI, H., SASAKI, Y., BANDO, T. AND MATSUOKA, K. Results of the NEWREP-A dedicated sighting survey during the 2017/18 austral summer season. 30pp.
08. ØIEN, N. Report of the Norwegian 2017 survey for minke whales within the Small Management Area EB - the Barents Sea. 10pp.
09. PIKE, D.G., GUNNLAUGSSON, T., MIKKELSEN, B. AND VÍKINGSSON, G.A. Estimates of the abundance of humpback whales (*Megaptera novaeangliae*) from the NASS Icelandic and Faroese ship surveys conducted in 2015. 21pp.
10. MATSUOKA, K., HAKAMADA, T., UEDA, Y., KOMINAMI, T., ABE, N., OHKOSHI, C. AND MIYASHITA, T. Result of the Japanese dedicated sighting survey in the western North Pacific in 2017. 11pp.
11. HAKAMADA, T., MATSUOKA, K. AND PASTENE, L.A. Research plan for the NEWREP-A dedicated sighting survey in the Antarctic in 2018/19. 10pp.
12. MATSUOKA, K., TAYLOR, J., YOSHIMURA, I., CRANCE, J. AND KASAI, H. Cruise report of the 2017 IWC-Pacific Ocean Whale and Ecosystem Research (IWC-POWER). 47pp.
13. MATSUOKA, K., MIYASHITA, T., MURASE, H., KITAKADO, T. AND KATO, H. (DRAFT) Proposal for the 2019 and 2020 IWC-Pacific Ocean Whale and Ecosystem Research (POWER). 11pp.
- 13rev1. MATSUOKA, K., ZHARIKOV, K.A., MIYASHITA, T., MURASE, H., KITAKADO, T., KATO, H. AND DONOVAN, G. Proposal for the 2019 and 2020 IWC-Pacific Ocean Whale and Ecosystem Research (POWER). 10pp. REVISED: paper finalised.
14. ALLISON, C., BUTTERWORTH, D.S., CANADAS, A., COOKE, J.G., DONOVAN, G., FREITAS, L., HERR, H., KITAKADO, T., MATSUOKA, K., MCKINLAY, J.P., PALKA, D., PUNT, A.E., GUNNLAUGSSON, T. AND ZERBINI, A.N. Report of the intersessional email group on abundance estimates, status and international cruises (ASI). 6pp.
15. HAKAMADA, T., MATSUOKA, K. AND MIYASHITA, T. Updated  $g(0)$  estimate for western North Pacific Bryde's whales and its application to previous abundance estimates. 11pp.
- 15rev1. HAKAMADA, T., MATSUOKA, K. AND MIYASHITA, T. Updated  $g(0)$  estimate for western North Pacific Bryde's whales and its application to previous abundance estimates. 11pp. REVISED: editorial changes to Figure 1.
- 15rev2. HAKAMADA, T., MATSUOKA, K. AND MIYASHITA, T. Updated  $g(0)$  estimate for western North Pacific Bryde's whales and its application to previous abundance estimates. 11pp. REVISED: Table 7 has been revised.
16. GUSHCHEROV, P.S., TIUPELEEV, P.A., SAMONOV, V.I. AND MIYASHITA, T. Research plan of the cetacean sighting survey in the north western Sea of Okhotsk in 2018. 6pp.
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01. GIVENS, G.H., MOCKLIN, J.A., BRATTSTRÖM, L.V., TUDOR, B.J., KOSKI, W.R., ZEH, J.E., SUYDAM, R. AND GEORGE, J.C. Survival rate and 2011 abundance of Bering-Chukchi-Beaufort Seas bowhead whales from photo-identification data over three decades. 24pp.
- 01rev1. GIVENS, G.H., MOCKLIN, J.A., BRATTSTRÖM, L.V., TUDOR, B.J., KOSKI, W.R., ZEH, J.E., SUYDAM, R. AND GEORGE, J.C. Adult survival rate and 2011 abundance of Bering-Chukchi-Beaufort Seas bowhead whales from photo-identification data over three decades. 25pp. REVISED: edited.
02. WILLOUGHBY, A.L., CLARKE, J.T., FERGUSON, M.C., STIMMELMAYR, R. AND BROWER, A.B. Bowhead whale carcasses in the Eastern Chukchi and Western Beaufort Seas, 2009-2017. 11pp.
03. CLARKE, J.T., FERGUSON, M.C., BROWER, A.B. AND WILLOUGHBY, A.L. Bowhead whale calves in the Western Beaufort Sea, 2012-2017. 12pp.

04. QUAKENBUSH, L., CITTA, J., GEORGE, J.C., HEIDE-JØRGENSEN, M.P., BROWER, H., HARWOOD, L., ADAMS, B., POKIAK, C., POKIAK, J. AND LEA, E. Bering-Chukchi-Beaufort stock of bowhead whales: 2006-2017 satellite telemetry results with some observations on stock sub-structure. 26pp.
05. SUYDAM, R., GEORGE, J.C., PERSON, B., STIMMELMAYR, R., SFORMO, T., PIERCE, L., VON DUYKE, A., DE SOUSA, L. AND SHEFFIELD, G. Subsistence harvest of bowhead whales (*Balaena mysticetus*) by Alaskan Natives during 2017. 9pp.
06. SUYDAM, R. AND GEORGE, J.C. Subsistence harvest of bowhead whales (*Balaena mysticetus*) taken by Alaskan Natives, 1974 to 2016. 16pp.
07. GEORGE, J.C., SUYDAM, R., GIVENS, G., HORSTMANN, L., STIMMELMAYR, R. AND SHEFFIELD, G. Length at sexual maturity and pregnancy rates of Bering-Chukchi-Beaufort Seas bowhead whales. 10pp.
08. STIMMELMAYR, R., GEORGE, J.C., WILLOUGHBY, A.L., BROWER, A.B., CLARKE, J.T., FERGUSON, M.C., SHEFFIELD, G., STAFFORD, K., VON DUYKE, A., SFORMO, T., PERSON, B., SOUSA, L. AND SUYDAM, R. 2017 health report for the Bering-Chukchi-Beaufort Seas bowhead whales - preliminary findings. 26pp.
09. NO PAPER.
10. REINHART, S. 2018 update to the International Whaling Commission (IWC): Canadian bowhead harvests since 2015. 2pp.
11. NO PAPER.
12. SUYDAM, R., GEORGE, J.C., FERGUSON, M.C. AND GIVENS, G. Update on plans for a population survey in 2019 of Bering-Chukchi-Beaufort bowhead whales. 4pp.
13. WITTING, L. A candidate SLA for fin whales in West Greenland. 2pp.
- 13rev1. WITTING, L. A candidate SLA for fin whales in West Greenland. 9pp. REVISED: paper completed.
14. WITTING, L. A candidate SLA for the common minke whale in West Greenland. 2pp.
- 14rev1. WITTING, L. A candidate SLA for the common minke whale in West Greenland. 9pp. REVISED: paper completed.
- 14rev2. WITTING, L. A candidate SLA for the common minke whale in West Greenland. 15pp. REVISED: edited.
15. BRANDÃO, A. Potential SLAs for West Greenland fin whales testing against the agreed evaluation trials. 31pp.
16. FERGUSON, M.C., CLARKE, J.T., ANGLISS, R., BENGTON, J., BROWER, A.B., CITTA, J., CLAPHAM, P., CONN, P., FORNEY, K., GEORGE, J.C. AND GIVENS, G. Bering-Chukchi-Beaufort bowhead whale abundance estimation survey workshop report, 4-5 April 2018, Marine Mammal Laboratory, AFSC, NOAA. 24pp.
17. ILYASHENKO, V.Y. Needs of Chukotka indigenous people in gray whale harvest products and rationale for updates to the Paragraph 13(b)(2) of the Schedule (the gray whale catch limit). 5pp.
18. WITTING, L. On evaluation trials for West Greenland minke whales. 8pp.
19. DENMARK/GREENLAND. Request for advice on Greenlandic hunts. 2pp.
20. ZAGREBELNYY, S.V. Whaling in Chukotka from 2013 till 2017. 8pp.
- 20rev1. ZAGREBELNYY, S.V. Whaling in Chukotka from 2013 till 2017. 8pp. REVISED: edited.
21. GIVENS, G.H., ALLISON, C., DONOVAN, G., GEORGE, J.C., SCORDINO, J., STACHOWITSCH, M., SUYDAM, R., TIEDEMANN, R. AND WITTING, L. Report of the Intersessional Correspondence Group on Drafting an Aboriginal Whaling Scheme. 10pp.

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01. ARIAS, M., COSCARELLA, M.A., ROMERO, M.A., SUEYRO, N., SVENDSEN, G.M., CRESPO, E.A. AND GONZALEZ, R.A. Southern Right Whale *Eubalaena australis* recolonizes Golfo San Matías (Patagonia, Argentina). 24pp.
02. SUEYRO, N., CRESPO, E.A., ARIAS, M. AND COSCARELLA, M.A. Density-dependent changes in the distribution of southern right whales (*Eubalaena australis*) in the breeding ground Peninsula Valdés. 14pp.
03. MARÓN, C.F., DI MARTINO, M., CHIRIFE, A., BELTRAMINO, L., ALZUGARAY, L., ADLER, F.R., SEGER, J., SIRONI, M., ROWNTREE, V.J., LÁBAQUE, M.C. AND UHART, M. No evidence of malnutrition in dead southern right whale calves off Argentina as inferred from blubber thickness measurements and lipid content analyses. 12pp.
04. FERNÁNDEZ AJÓ, A.A., HUNT, K.E., UHART, M., ROWNTREE, V., SIRONI, M., MARÓN, C.F., DI MARTINO, M. AND BUCK, C.L. Lifetime glucocorticoid profiles in baleen of right whale calves: potential relationships to chronic stress of repeated wounding by Kelp Gulls. 16pp.
05. CRESPO, E.A. AND COSCARELLA, M.A. The Southwestern Atlantic Southern Right Whale, *Eubalaena australis*, population is growing but at a decelerated rate. 17pp.
06. SIRONI, M., ROWNTREE, V.J., DI MARTINO, M., ALZUGARAY, L., RAGO, V., MARON, C.F. AND UHART, M. Southern right whale mortalities at Peninsula Valdés, Argentina: updated information for 2016-2017. 9pp.
07. BURDIN, A.M., SYCHENKO, O. AND MAMAEV, M. Gray whale research off northeastern Sakhalin Island and Eastern Kamchatka, Russia, in 2017. 11pp.
08. JACOBS, E., DUFFY, M., MAGOLAN, J., GALLETTI VERNAZZANI, B., CABRERA, E., LANDEA, R., BUCHAN, S. AND SAYIGH, L. First acoustic recordings of critically endangered eastern South Pacific southern right whales (*Eubalaena australis*). 15pp.
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10. MINTON, G. AND ANTONOPOULOU, M. The Arabian Sea Whale Network: a brief progress report. 5pp.
- 10rev1. MINTON, G. AND ANTONOPOULOU, M. The Arabian Sea Whale Network: a brief progress report. 5pp. REVISED: this revision includes the correct references/document numbers for other papers submitted to this meeting relating to Arabian Sea humpback whales. These document numbers (which were not yet available at the time of the original submission of this document), will make it easier for readers to cross-reference relevant reports.
11. KIM, H.Y., SOHN, H. AND IMAI, Y. Possible occurrence of a gray whale off Korea in 2015. 6pp.
- 11rev1. KIM, H.Y., SOHN, H. AND IMAI, Y. Possible occurrence of a gray whale off Korea in 2015. 6pp. REVISED: edited.
12. NAKAMURA, G., YOSHIDA, H., MORITA, H., KONISHI, K., MOGUE, T., MIYASHITA, T., KAMIZAWA, Y. AND KATO, H. Status report of conservation and researches on the Western North Pacific gray whales in Japan, May 2017-April 2018. 9pp.

13. WILLSON, A., BALDWIN, R., CERCHIO, S., CHILDERHOUSE, S., COLLINS, T., FINDLAY, K., GENOV, T., GODLEY, B.J., AL-HARTHI, S., LESLIE, M., MACDONALD, D., MINTON, G., ZERBINI, A.N. AND WITT, M.J. Update on satellite telemetry studies and first unmanned aerial vehicle assisted health assessment studies of Arabian Sea humpback whales off the coast of Oman. 11pp.
- 13rev1. WILLSON, A., LESLIE, M., BALDWIN, R., CERCHIO, S., CHILDERHOUSE, S., COLLINS, T., FINDLAY, K., GENOV, T., GODLEY, B.J., AL-HARTHI, S., MACDONALD, D., MINTON, G., ZERBINI, A.N. AND WITT, M.J. Update on satellite telemetry studies and first unoccupied aerial vehicle assisted health assessment studies of Arabian Sea humpback whales off the coast of Oman. 15pp. REVISED: insertion of missing text on UAV method and results. Insertion of figures including; survey sightings, satellite telemetry tracks, UAV morphology and skin disease assessments.
14. IÑIGUEZ BESSEGA, M. Southern right whale of the SW Atlantic: An update on the CMP actions in Argentina (2017-2018). 13pp.
15. SUTARIA, D. Baleen whale reports from the eastern Arabian Sea based on interview surveys and stranding reports - update from India. 5pp.
16. IÑIGUEZ BESSEGA, M. Report of the Conservation Management Plan for franciscana (*Pontoporia blainvillei*). 11pp.
- 16rev1. IÑIGUEZ BESSEGA, M. Report of the Conservation Management Plan for franciscana (*Pontoporia blainvillei*). 13pp. REVISED: edited.
17. ZERBINI, A.N., AJO, A.F., ANDRIOLO, A., CLAPHAM, P.J., CRESPO, E.A., GONZALEZ, R.A., HARRIS, G., MENDEZ, M., ROSENBAUM, H., SIRONI, M., SUCUNZA, F. AND UHART, M. Satellite tracking of southern right whales (*Eubalaena australis*) from Golfo San Matias, Rio Negro Province, Argentina. 10pp.
18. VERNAZZANI, B.G., BALCAZAR-CABRERA, N., BUCHAN, S., BROWNELL, J., R.L., CHOLEWIAK, D., GOYA, E. AND MOORE, S. Progress Report on Passive Acoustic Monitoring of the Eastern South Pacific Southern Right Whale, a Key to Improve Conservation Management Plan Outputs: May 2017-April 2018. 7pp.
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01. STACHOWITSCH, M., ROSE, N.A. AND PARSONS, E.C.M. State of the Cetacean Environment Report (SOCER) 2018. 19pp.
02. BUKINA, L.A., SKURIHIN, L.E., LOBOVIKOV, S.V. AND LITOVKA, D.I. The occurrence of Trichinellosis in gray whales (*Eschrichtius robustus*) and Pacific walrus (*Odobenus rosmarus divergens*) off Chukotka, Russian Federation. 5pp.
03. LITOVKA, D.I., SIMOKON, M.V., KOVEKOVDVA, L.T., BLOKHIN, S.A., KRASNOVA, V.V., BELIKOV, R.A., PRASOLOVA, E.A., RYABOV, A.A. AND CHIKILEV, V.G. Overview of monitoring, populational and toxicology researches of gray whales in the Mechigmsky Bay and beluga whales in the Anadyr Liman (western Bering Sea, Russia), 2013-2017. 5pp.
- 03rev1. LITOVKA, D.I., SIMOKON, M.V., KOVEKOVDVA, L.T., BLOKHIN, S.A., KRASNOVA, V.V., BELIKOV, R.A., PRASOLOVA, E.A., RYABOV, A.A. AND CHIKILEV, V.G. Overview of monitoring, populational and toxicology researches of gray whales in the Mechigmsky Bay and beluga whales in the Anadyr Liman (western Bering Sea, Russia), 2013-2017. 5pp. REVISED: edited.
04. NAIDENKO, S.V., KLYUCHNIKOVA, P.S. AND LITOVKA, D.I. Assessment of cortisol concentration in baleens of gray whales harvested in Chukotka, 2003-2017. 6pp.
05. HAYDEN, M., KLEIN, D., SUBBIAH, S., WITTMACK, C., LESAGE, V., MORIN, Y., URBÁN R, J., MONTALVO, C.L., BICKHAM, J. AND GODARD-CODDING, C. Reproductive and stress steroid hormone analysis in cetacean blubber by liquid chromatography - tandem mass spectrometry. 20pp.
06. MOSQUERA-GUERRA, F., TRUJILLO, F., PARKS, D., OLIVEIRA-DA-COSTA, M., USMA, S., WILLEMS, D., MALDONADO, R., AMOROCHO, D., BERG, K., ARMENTERAS-PASCUAL, D., VAN DAMME, P.A., SAINZ, L., FRANCO, N., MANTILLA-MELUK, H., CARVAJAL-CASTRO, J.D., CAMBELL, E., CORDOVA, L., ECHEVERRIA, A., CABALLERO, S. AND MARMONTEL, M. Presence of mercury in river dolphins (*Inia* and *Sotalia*) in the Amazon and Orinoco basins: evidence of a growing threat for these species. 30pp.
07. FRISCH-NWAKANMA, H. CMS Family guidelines on environmental impact assessments for marine noise-generating activities developed by the Convention on Migratory Species (CMS). 3pp.
- 07rev1. FRISCH-NWAKANMA, H. AND PRIDEAUX, G. CMS Family guidelines on environmental impact assessments for marine noise-generating activities developed by the Convention on Migratory Species (CMS). 3pp. REVISED: author name added.
08. HALL, A.J. Mercury in cetaceans. 16pp.
09. ANGEL-ROMERO, P.A., BARRAGÁN-BARRERA, D.C., BOTERO-ACOSTA, N., RIET-SAPRIZA, F.G., CABALLERO, S. AND LUNA-ACOSTA, A. Mercury concentrations in wild humpback whales (*Megaptera novaeangliae*) sampled in the Colombian Pacific and the Antarctic Peninsula. 15pp.
10. PIERANTONIO, N., SIMMONDS, M. AND EISELDER-PIERANTONIO, S. Relevant debris to be targeted for cetaceans: a review of available information. 50pp.
11. BURKHARDT-HOLM, P. AND N'GUYEN, A. Microplastics in the food web of cetaceans - a review. 14pp.
12. NO PAPER.
13. ANON. Joint ACCOBAMS/ASCOBANS/SPA-RAC Workshop on Marine Debris and Cetacean Stranding. 15pp.

14. CUNHA, H.A., SANTOS NERO, E.B., CARVALHO, R.R., IKEDA, J., GROCH, K.R., DIAZ-DELGADO, J., FLACH, L., BISI, T.L., CATODIAS, J.L., AZEVEDO, A.F. AND BRITO, J.L. First outbreak of cetacean morbillivirus in the South Atlantic: epidemiological context. 14pp.
15. PIERANTONIO, N. AND SIMMONDS, M.P. Consideration of data collection related to marine debris and cetaceans. 16pp.
16. CHOLEWIAK, D., BURKHARDT, E., FREY, S., LEAPER, R., MOORE, S. AND WILLIAMS, R. Updates on progress related to international noise strategies. 5pp. UPGRADED WP.

#### SC/67b/EM

01. MCKINLAY, J.P., DE LA MARE, W.K. AND WELSH, A.H. Issues Cunen, Walløe and Hjort should consider in relation to their analyses of Antarctic minke whale body condition. 10pp.
- 01rev1. MCKINLAY, J.P., DE LA MARE, W.K. AND WELSH, A.H. Issues Cunen, Walløe and Hjort should consider in relation to their analyses of Antarctic minke whale body condition. 13pp. REVISED: this revision provides our review, in an addendum, of EM/02 submitted by Cunen, Walloe, Konishi and Hjort. The revision involves no new analyses of the data.
02. CUNEN, C., WALLØE, L., KONISHI, K. AND HJORT, N.L. Supplementary notes and material, with some refined analyses, compared to our IWC/SC/67A/EM04 May 2017 report. 14pp.
03. MCKINLAY, J.P., DE LA MARE, W.K. AND WELSH, A.H. No substantial change in Antarctic minke whale condition during the JARPA years. 133pp.
04. DE LA MARE, W.K. The contribution of prey spatial distribution to baleen whale functional responses. 5pp.
05. WADA, A., MOGOE, T., BANJO, S., KASAI, H., SASAKI, Y. AND TAMURA, T. Results of the krill and oceanographic survey under the NEWREP-A in the Antarctic in 2017/18. 13pp.
06. MILLER, E.J., POTTS, J., COX, M.J., MILLER, B.S., O'DRISCOLL, R., KELLY, N. AND DOUBLE, M.C. The characteristics of krill swarms in relation to aggregating Antarctic blue whales. 12pp.
- 06rev1. MILLER, E.J., POTTS, J., COX, M.J., MILLER, B.S., O'DRISCOLL, R., KELLY, N. AND DOUBLE, M.C. The characteristics of krill swarms in relation to aggregating Antarctic blue whales. 12pp. REVISED: numerical amendments to Figure 2 and Table 2. Amendment to acknowledgements.
07. DE LA MARE, W. Further development of individual base energetic models including the effects of feeding during migration. 18pp.
08. CUNEN, C., WALLØE, L. AND HJORT, N.L. Reactions and answers to two papers by McKinlay, De La Mare and Welsh. 17pp.

#### SC/67b/HIM

01. VAN WAEREDEBEEK, K., APAZA, M., REYES, J.C., ALFARO-SHIGUETO, J., SANTILLÁN, L., BARREDA, E., ALTAMIRANO-SIERRA, A., ASTOHUAMAN-URIBE, J., ORTIZ-ALVAREZ, C. AND MANGEL, J. Beach-cast small cetaceans bear evidence of continued catches and utilisation in coastal Peru, 2000-2017. 15pp.
02. DE JAGER, M., HENGEVELD, G., MOOIJ, W. AND SLOOTEN, E. Modelling the spatial dynamics of Maui dolphins using individual based models. 57pp.
03. SICILIANO, S., CARDOSO, J. AND FRANCISCO, A. Humpback whale (*Megaptera novaeangliae*) feeding behaviour and gillnet entanglements off south-eastern Brazil: 2016-2017. 8pp.
04. JACOB, T., LESLIE, A. AND ODY, D. Protecting large cetaceans from ship strikes in the Pelagos Sanctuary. 14pp.
05. PELTIER, H., CZECK, R., DABIN, W., DANIEL, P., DEAVILLE, R., HAELTERS, J., IJSSELDIJK, L.L., JENSEN, L.F., JEPSON, P.D., KEIJL, G., OLSEN, M.T., SIEBERT, U., VAN CANNEYT, O. AND RIDOUX, V. Small cetacean mortality as derived from stranding schemes: the harbour porpoise case in the northeast Atlantic. 38pp.
06. ANON. Towards understanding the overlap of selected threats and important marine mammal areas (IMMAs) across the Mediterranean Sea. 9pp.
07. KISZKA, J.J., TALWAR, B., MINTON, G., COLLINS, T. AND REEVES, R.R. Cetacean bycatch in Indian Ocean tuna fisheries: recent updates and perspectives from the 13th Meeting of the Working Party on Ecosystems and Bycatch of the Indian Ocean Tuna Commission. 11pp.
08. PELTIER, H., AUTHIER, M., DABIN, W., DARS, C., DEMARET, F., VAN CANNEYT, O., DANIEL, P. AND RIDOUX, V. Can modelling the drift of bycaught dolphin stranded carcasses help estimate total bycatch and identify involved fisheries? A feasibility study. 33pp.
09. BROWNELL, J., R.L. AND MALLETTE, S.D. Global baleen whale bycatch: the most threatened population. 12pp.
- 09rev1. BROWNELL, J., R.L. AND MALLETTE, S.D. Global baleen whale bycatch: the most threatened populations. 18pp. REVISED: edited.
10. FRUET, P.F., PRADO, J.H., GENOVES, R.C., DI TULLIO, J.C. AND SECCHI, E.R. Preliminary evidences suggest that the establishment of a bottlenose dolphin protection area in southern Brazil is failing against the reduction of bycatch. 14pp.
11. PANIGADA, S. AND RITTER, F. 6th Progress Report on IWC Ship Strike Data Coordination - April 2018. 10pp.
12. TARZIA, M. IWC Bycatch Mitigation Initiative - strategic assessment of potential work on bycatch [draft]. 20pp.

#### SC/67b/IA

01. PUNT, A.E. Updated progress report: A multi-stock model for North Pacific sei whales, with preliminary results. 21pp.
02. MIZROCH, S.A., BALCOMB, K.C. AND RICE, D.W. Historical winter and summer distribution of large whales along the eastern North Pacific coast based on data from the US whale marking program, 1962-1969. 29pp.
03. CLAPHAM, P.J., BAKER, C.S., CALAMBOKIDIS, J., DONOVAN, G., IVASHCHENKO, Y., KITAKADO, T., MATSUOKA, K., PALKA, D., PUNT, A.E., URBÁN R, J., WADE, P., YOSHIDA, H. AND ZERBINI, A.N. Report of the intersessional working group on the Comprehensive Assessment of North Pacific humpback whales. 8pp.

- 03rev1. CLAPHAM, P.J., BAKER, C.S., CALAMBOKIDIS, J., DONOVAN, G., IVASHCHENKO, Y., KATO, H., KITAKADO, T., MATSUOKA, K., PALKA, D., PUNT, A.E., URBÁN R, J., WADE, P., YOSHIDA, H. AND ZERBINI, A.N. Report of the intersessional working group on the Comprehensive Assessment of North Pacific humpback whales. 8pp. REVISED: name added to participants list.
- 03rev2. CLAPHAM, P.J., BAKER, C.S., CALAMBOKIDIS, J., DONOVAN, G., IVASHCHENKO, Y., KATO, H., KITAKADO, T., MATSUOKA, K., PALKA, D., PUNT, A.E., URBÁN R, J., WADE, P., YOSHIDA, H. AND ZERBINI, A.N. Report of the intersessional working group on the Comprehensive Assessment of North Pacific humpback whales. 9pp. REVISED: the inclusion of a Figure 1 that was referred to in the text but not included in the original, and correction of an error in a table taken from a workshop report.

#### SC/67b/NH

01. NO PAPER.
02. PASTENE, L.A., TAGUCHI, M., LANG, A.R., GOTO, M. AND MATSUOKA, K. Population genetic structure and historical demography of North Pacific right whales. 18pp.
03. BRANCH, T.A., BROWNELL, J., R.L., DONOVAN, G., IVASHCHENKO, Y., KATO, H., LANG, A.R., MATSUOKA, K., MIZROCH, S., ROSENBAUM, H., ŠIROVIČ, A. AND SUYDAM, R. Data available for an assessment of North Pacific blue whales. 24pp.
04. INAI, K., MATSUOKA, K. AND KITAKADO, T. Preliminary report of abundance estimation for the North Pacific humpback whales using IWC-POWER data. 14pp.
05. CORKERON, P.J. AND PACE, R.M., III. Status of North Atlantic right whales: an update on the events of 2017. 4pp.
06. TAJIMA, Y., MATSUDA, A., SHIOZAKI, A., MORI, K., KURIHARA, N., NISHIMANIWA, K. AND YAMADA, T.K. A yearling right whale calf entangled in a set net off Ito, central Japan. 13pp.
- 06rev1. TAJIMA, Y., MATSUDA, A., SHIOZAKI, A., MORI, K., KURIHARA, N., NISHIMANIWA, K. AND YAMADA, T.K. A yearling right whale calf entangled in a set net off Ito, central Japan. 13pp. REVISED: acknowledgments added.
07. CHOLEWIAK, D., PALKA, D., CHAVEZ-ROSALES, S., DAVIS, G., JOSEPHSON, E., VAN PARIJS, S. AND WEISS, S. Updates on sei whale (*Balaenoptera borealis*) distribution, abundance estimates, and acoustic occurrence in the western North Atlantic. 16pp.
08. IVASHCHENKO, Y.V. AND CLAPHAM, P.J. Preserving the past: digitization of Soviet whale catches and sightings from the North Pacific. 9pp.
09. CERCHIO, S., ANDRIANTENAINA, B., ZERBINI, A.N., PENDLETON, D., RASOLOARIJAO, T. AND CHOLEWIAK, D. Residency, feeding ecology, local movements and potential isolation of the Madagascar Omura's whale (*Balaenoptera omurai*) population. 26pp.
- 09rev1. CERCHIO, S., ANDRIANTENAINA, B., ZERBINI, A.N., PENDLETON, D., RASOLOARIJAO, T. AND CHOLEWIAK, D. Residency, feeding ecology, local movements and potential isolation of the Madagascar Omura's whale (*Balaenoptera omurai*) population. 26pp. REVISED: edited.

#### SC/67b/PH

01. OLSON, P.A. AND JONES, C.D. Photo-identification of Antarctic fin whales. 8pp.
02. Olson, P.A., de Boer, M., Kennedy, A., Double, M.C., Matsuoka, K., Pastene, L.A. and Findlay, K. Photo-identification of Antarctic blue whales: new data from 1998 and 2015-2018. 6pp.
03. Blount, D., Holmberg, J. and Minton, G. Flukebook - a tool for cetacean photo identification, data archiving and automated fluke matching. 10pp.
04. Vernazzani, B.G., Olson, P.A. and Salgado Kent, C. Progress report on Southern Hemisphere Blue Whale Catalogue: period May 2017-April 2018. 6pp.
05. Cheeseman, T. and Southerland, K. Happywhale Progress Report 2017-2018. 4pp. UPGRADED WP.

#### SC/67b/RMP

01. DE LA MARE, W. Update on incorporating an individual based energetics model into the RMP trials software. 9pp.
02. KITAKADO, T. AND GOTO, M. A plausible range of MSYR(1+) and relative plausibility of stock structure hypotheses for the WNP common minke whales investigated by bycatch data: Updated responses to requests by the Scientific Committee for more detailed explanation for Section 4 of SC/67a/SCSP/13. 9pp.
03. KITAKADO, T. Evaluation of management procedures with CLA modified by recruitment information: specifications of trials to evaluate CLA variants for Antarctic minke whales which utilize ageing information. 14pp.

#### SC/67b/SAN

01. De la Mare, W., Dearie, T., Anderson, H., McKinlay, J.P., Bell, E.M. and Double, M.C. Draft Southern Ocean Sanctuary Management Plan. 14pp.

#### SC/67b/SCP

01. Convenors' Group. Draft amendments to SC Rules of Procedure - working document for SC/67b. 7pp.
02. SC Chair, SC Vice-Chair and Head of Science. Scientific Committee Handbook - Working Methods of the IWC's Scientific Committee. 27pp.
- 02rev1. SC Chair, SC Vice-Chair and Head of Science. Scientific Committee Handbook - Working Methods of the IWC's Scientific Committee. 26pp. REVISED: updated information.

### SC/67b/SCSP

01. DE LA MARE, W.K. AND MCKINLAY, J.P. NEWREP-A sample size calculations needs to be completed. 4pp.
02. ISODA, T., YASUNAGA, G., YOSHIDA, H., MOGOE, T., ITO, N., SHIMATANI, K., NAKAMURA, G., MAEDA, H., INOUE, S., KUMAGAI, S., GOTO, M., NISHIMURA, F., KIM, Y., ASANO, Y., AKAGI, M., NAKAJO, K., YAMAMOTO, R., WATANABE, H., SONOBE, N., SHIBATA, C., AGARI, T., KATSUMATA, T., SAZAWA, R., HATANAKA, T., TAKAHASHI, T., HATSUSE, A., INOUE, T., KOBATA, M., TAKEUCHI, A., MATSUMOTO, S., MIYOSHI, M., SEKO, H., MONGUCHI, Y. AND KATO, H. Cruise Report of the New Scientific Whale Research Program in the western North Pacific (NEWREP-NP) in 2017 - Pacific coastal component off Hachinohe and Kushiro. 15pp.
03. KONISHI, K., ISODA, T., BANDO, T., MINAMIKAWA, S. AND KLEIVANE, L. Results of satellite monitored tagging experiments on North Pacific sei whales conducted during the 2017 NEWREP-NP offshore survey 8pp.
04. YASUNAGA, G., KONISHI, K., ISODA, T. AND TAMURA, T. Results of the feasibility study on biopsy sampling and satellite tagging of Antarctic minke whales under NEWREP-A. 9pp.
05. INOUE, S., YASUNAGA, G. AND PASTENE, L.A. Determining sexual maturity in female Antarctic minke whales during the feeding season based on concentrations of progesterone in blubber. 8pp.
06. KONISHI, K., ISODA, T., NAKAI, K., OIKAWA, H., KANBAYASHI, J., UCHIDA, M., TSUNEKAWA, M., UEDA, Y., KOMINAMI, T., KAWABE, S., EGUCHI, H. AND TAMURA, T. Results of the first cruise of the New Scientific Whale Research Program in the western North Pacific (NEWREP-NP) in the 2017 summer season - offshore component. 14pp.
07. YOSHIDA, H., ITO, N., MAEDA, H., NAKAMURA, G., INOUE, S., HIROSE, A., NISHIMURA, F., ASANO, Y., YAMAMOTO, R., WATANABE, H., AGARI, T., SONOBE, N., KUMAGAI, S., SAZAWA, R., TAKAHASHI, T., HATSUSE, A., SATO, S., HIGA, H., HIRUDA, H., MIYASHITA, T., SASAKI, H., NAKAJYO, K. AND KATO, H. Cruise report of the New Scientific Whale Research Program in the western North Pacific (NEWREP-NP) in 2017 - coastal component off Abashiri in the southern Okhotsk Sea. 21pp.
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09. UCHIDA, M., SUZUKI, I., TAMURA, T., BANDO, T., KONISHI, K. AND MITANI, Y. Preliminary results in stable isotope analysis along edge of baleen plates in the Antarctic minke whales to estimate duration of time on feeding grounds. 11pp.
- 09rev1. UCHIDA, M., SUZUKI, I., TAMURA, T., BANDO, T., KONISHI, K. AND MITANI, Y. Preliminary results in stable isotope analysis along edge of baleen plates in the Antarctic minke whales to estimate duration of time on feeding grounds. 11pp. REVISED: title corrected.

### SC/67b/SDDNA

01. BAIRD, A.B., GIVENS, G.H., GEORGE, J.C., SUYDAM, R.S. AND BICKHAM, J.W. Stock structure of bowhead whales inferred from mtDNA and SNP DNA. 21pp.
02. BRÜNICHE-OLSEN, A., WESTERMAN, R., KAZMIERCZYK, Z., VERTYANKIN, V.V., GODARD-CODDING, C., BICKHAM, J.W. AND DEWOODY, J.A. The inference of gray whale (*Eschrichtius robustus*) historical population attributes from whole-genome sequences. 29pp.
03. BRÜNICHE-OLSEN, A., URBÁN R, J., VERTYANKIN, V.V., GODARD-CODDING, C., BICKHAM, J.W. AND DEWOODY, J.A. Genetic data reveal mixed-stock assemblages of gray whales in both Eastern and Western Pacific Ocean. 21pp.
04. GOTO, M., KITAKADO, T., TAGUCHI, M. AND PASTENE, L.A. Feasibility of the DNA methylation technique for age determination in the Antarctic minke whale. 9pp.
05. JOSÉ PÉREZ-ÁLVAREZ, M.J., OLAVARRÍA, C., KRAFT, S., MORAGA, R., SEPÚLVEDA, M., SANTOS-CARVALLO, M., PAVEZ, G. AND POULIN, E. NOTE: this is the wrong paper. Genetic diversity of South East Pacific fin whales and lack of genetic differentiation between Southern Hemisphere stocks. 10pp.
- 05rev1. JOSÉ PÉREZ-ÁLVAREZ, M.J., RODRIGUEZ, F., KRAFT, S., OLAVARRÍA, C., NARETTO, C. AND POULIN, E. Historical and contemporary population structure and the impact of whaling on sei whales. 7pp. REVISED: original uploaded was the wrong file.
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01. VERMEULEN, E., WILKINSON, C., THORNTON, M., PETERS, I.T. AND FINDLAY, K. Report on the Mammal Research Institute Whale Unit southern right whale survey - 2017. 24pp.
02. SREMBIA, A.L., LANG, A.R., SAREMI, N., SHAPIRO, B., PITMAN, R., WILSON, P., MARTIN, A.R. AND BAKER, C.S. Loss of maternal lineages in Antarctic blue whales described from whole mitochondrial genomes of historical and contemporary samples. 7pp.
03. PASTENE, L.A., ACEVEDO, J. AND BRANCH, T.A. Morphometric analysis of Chilean blue whales and implications for their taxonomy. 17pp.
04. TORRES, L.G., BARLOW, D.R. AND KLINCK, H. New Zealand blue whale distribution and response to disturbance analysis underway to inform management decisions. 4pp.
05. BARLOW, D.R., TORRES, L.G., HODGE, K.B., STEEL, D., BAKER, C.S., CHANDLER, T.E., BOTT, N., CONSTANTINE, R., DOUBLE, M.C., GILL, P., GLASGOW, D., HAMNER, R.M., LILLEY, C., OGLE, M., OLSON, P.A., PETERS, C., STOCKIN, K.A., TESSAGLIA-HYMES, C.T. AND KLINCK, H. Documentation of a New Zealand blue whale population based on multiple lines of evidence. 32pp.

06. PASTENE, L.A., HAKAMADA, T., ACUÑA, P., TAGUCHI, M., GOTO, M., MATSUOKA, K. AND NISHIWAKI, S. Site-fidelity and movement ranges of southern right whales in Antarctic Area IV inferred from genetic tagging. 11pp.
07. DOUBLE, M.C., WESTWOOD, K., BELL, E.M., KELLY, N., MILLER, B.S., DE LA MARE, W., ANDREWS-GOFF, V.A., COX, M.J., KAWAGUCHI, S., KING, R., MELBOURNE-THOMAS, J., DAVIDSON, A., NICOL, S., WILLIAMS, G., LAVEROCK, B., RATNARAJAH, L., SEYMOUR, J., FRIEDLAENDER, A., HERR, H., FINDLAY, K., IÑIGUEZ BESSEGA, M. AND MILLER, E.J. Cruise plan for the 2019 IWC-SORP research voyage 'The availability of Antarctic krill to large predators and their role in biogeochemical recycling in the Southern Ocean'. 11pp.
08. OLSON, P.A., KINZEY, D., DOUBLE, M.C., MATSUOKA, K., PASTENE, L.A. AND FINDLAY, K. Capture-recapture estimates of abundance of Antarctic blue whales. 11pp.
- 08rev1. OLSON, P.A., KINZEY, D., DOUBLE, M.C., MATSUOKA, K., PASTENE, L.A. AND FINDLAY, K. Capture-recapture estimates of abundance of Antarctic blue whales. 11pp. REVISED: updated two figures to show a more complete range of confidence intervals.
- 08rev2. OLSON, P.A., KINZEY, D., DOUBLE, M.C., MATSUOKA, K., PASTENE, L.A. AND FINDLAY, K. Capture-recapture estimates of abundance of Antarctic blue whales. 11pp. REVISED: growth rate value needed correction.
09. GOETZ, K., CHILDHOUSE, S., PATON, D., OGLE, M., HUPMAN, K., CONSTANTINE, R., DOUBLE, M.C., ANDREWS-GOFF, V., ZERBINI, A.N. AND OLSON, P.A. Satellite tracking of blue whales in New Zealand waters, 2018 voyage report. 13pp.
- 09rev1. GOETZ, K., CHILDHOUSE, S., PATON, D., OGLE, M., HUPMAN, K., CONSTANTINE, R., DOUBLE, M.C., ANDREWS-GOFF, V., ZERBINI, A.N. AND OLSON, P.A. Satellite tracking of blue whales in New Zealand waters, 2018 voyage report. 12pp. REVISED: small errors corrected in the number of photo-identifications and typos.
- 09rev2. GOETZ, K., CHILDHOUSE, S., PATON, D., OGLE, M., HUPMAN, K., CONSTANTINE, R., DOUBLE, M.C., ANDREWS-GOFF, V., ZERBINI, A.N. AND OLSON, P.A. Satellite tracking of blue whales in New Zealand waters, 2018 voyage report. 12pp. REVISED: fixed dates and sightings table and error to photo ID data. Also fixed legends on three figures.
10. SAN MARTIN, A.A., PASO VIOLA, M.N., DELLABIANCA, N.A., RICCIARDELLI, L., TORRES, M.A. AND MASSONE, A.R. The first report of a necropsy in fin whale (*Balaenoptera physalus*) stranded in Tierra del Fuego in 2016. 12pp.
11. ŠIROVIČ, A., BRANCH, T.A., BROWNELL, J., R.L., CERCHIO, S., LANG, A.R., BUCHAN, S., FINDLAY, K., MILLER, B.S., OLSON, P.A., ROGERS, T., SAMARAN, F. AND SUYDAM, R. Blue whale song occurrence in the Southern Hemisphere. 13pp.
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12. ŠIROVIČ, A. Progress report on the development of a permanent blue whale song reference library. 5pp.
13. PÉREZ-ÁLVAREZ, M.J., OLAVARRIA, C., KRAFT, S., MORAGA, R., SEPÚLVEDA, M., SANTOS-CARVALLO, M., PAVEZ, G. AND POULIN, E. Genetic diversity of south east Pacific fin whales and lack of genetic differentiation between Southern Hemisphere stocks. 10pp.
14. CERCHIO, S., RASOLOARIJAO, T. AND CHOLEWIAK, D. Progress report: acoustic monitoring of blue whales (*Balaenoptera musculus*) and other baleen whales in the Mozambique Channel off the northwest coast of Madagascar. 14pp.
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15. JACKSON, J.A., SREMBIA, A.L., ZERBINI, A.N., REYES REYES, V., HERR, H., ARCHER, F.I., ŠIROVIČ, A., BAKER, C.S., OLSON, P.A., TORRES-FLOREZ, J.P., LANG, A.R., ROGERS, T.L., SAMARAN, F., FRETWELL, P., DE LA MARE, W., AGUILAR, A., KELLY, N., BELL, E.M., MILLER, B.S., CERCHIO, S. AND LESLIE, M.S. Southern Hemisphere fin whale stock structure: a summary of published information to date. 10pp.
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17. GARRIGUE, C., DERVILLE, S. AND BONNEVILLE, C. Searching for humpback whales two centuries post-whaling: what is left in the Chesterfield-Bellona archipelago? 17pp.
18. BELL, E.M. IWC-SORP Research Fund: progress reports (2016-2018). 41pp.
19. HERR, H. Southern Hemisphere fin whales: update on available data sets. 12pp.
- 19rev1. HERR, H. Southern Hemisphere fin whales: update on available data sets. 14pp. REVISED: new tables added.
20. JACKSON, J.A., CARROLL, E.L., KENNEDY, A., LEAPER, R., CALDERAN, S., LESLIE, M.S., ANDRIOLO, A., STEPIEN, E., ZERBINI, A.N., MILLER, B.S., KELLY, N., STOWASSER, G., CHEESEMAN, T. AND MOORE, M. Sightings and acoustic records of right whales collected in South Georgia (Islas Georgias del Sur) waters January-February 2018. 13pp.
21. BELL, E.M. Annual Report of the Southern Ocean Research Partnership (IWC-SORP) 2017/18. 108pp.
22. BRANDÃO, A., VERMEULEN, E., ROSS-GILLESPIE, A., FINDLAY, K. AND BUTTERWORTH, D.S. Updated application of a photo-identification based assessment model to southern right whales in South African waters, focussing on inferences to be drawn from a series of appreciably lower counts of calving females over 2015 to 2017. 19pp.
23. BRANCH, T.A., MONNAHAN, C.C. AND ŠIROVIČ, A. Separating pygmy blue whale catches by population. 24pp.
24. CERCHIO, S., WILLSON, A., MUIRHEAD, C., AL HARTHI, S., BALDWIN, R., CHOLEWIAK, D., COLLINS, T., MINTON, G., RASOLOARIJAO, T. AND WILLSON, M.S. A new baleen whale song type described for the West Indian Ocean off Oman and northwest Madagascar. 8pp. UPGRADED WORKING PAPER.
- 24rev1. CERCHIO, S., WILLSON, A., MUIRHEAD, C., AL HARTHI, S., BALDWIN, R., CHOLEWIAK, D., COLLINS, T., MINTON, G., RASOLOARIJAO, T. AND WILLSON, M.S. A new baleen whale song type described for the West Indian Ocean off Oman and northwest Madagascar. 8pp. REVISED: new version of Figure 3.



## SC/67b/SM

01. Report of the Tenth Meeting of the Comité Internacional para la Recuperación de la Vaquita (CIRVA). 67pp.
- 01rev1. Report of the Tenth Meeting of the Comité Internacional para la Recuperación de la Vaquita (CIRVA). 67pp. REVISED: correction to a figure.
02. COSENTINO, M. AND SOUVIRON-PRIEGO, L. The Aquatic Wild Meat Database: a useful tool for monitoring small cetaceans illegally exploited for food and other purposes. 8pp.
03. MARCONDES, M.C.C., ANGELI, M., FONTES, F., PALAZZO, J.T., CAMPOS, R., DAPPER, C. AND CREMER, M. Report on franciscana fisheries interaction in FMA 1a, Brazil. 17pp.
04. ALFARO-SHIGUETO, J., CAMPBELL, E. AND MANGEL, J.C. Hydrovias: an emerging threat to river dolphins in Peru. 7pp.
05. SICILIANO, S., TAVARES, D.C., DE MOURA, J.F. AND DI BENEDITTO, A.P.M. Final Report Project: Assessment of the fisheries characteristics in southeastern Brazil: Moving towards a monitoring program to assess Franciscana bycatch in FMA 1b – northern Rio de Janeiro. 24pp.
06. CASTRO, C., CÁRDENAS, D., KAUFMAN, G. AND VAN WAEREBEEK, K. Marine mammals used as bait with improvised Fish Aggregating Devices in Ecuador. 10pp.
07. MEI, Z., HAO, Y., WANG, K., WANG, Z., ZHENG, J., HAN, Y., XIONG, X., CHEN, M. AND WANG, D. A range wide survey of the Yangtze finless porpoise (*Neophocaena asiaeorientalis*). 4pp.
08. MINISTRY FOR PRIMARY INDUSTRIES, DEPARTMENT OF CONSERVATION AND NEW ZEALAND GOVERNMENT. Māui dolphin: 2018 update on New Zealand's research and management approach. 7pp.
09. COSTA, M.O., MARMONTEL, M., XAVIER DA ROSA, D.S., COELHO, A., WICH, S., MOSQUERA-GUERRA, F. AND TRUJILLO, F. Effectiveness of unmanned aerial vehicles for population estimates of Amazon river dolphins. 16pp.
10. FRISCH-NWAKANMA, H. Guidelines on national legislation regarding live capture of cetaceans for commercial purposes developed by the Convention on Migratory Species (CMS). 2pp.
11. NO PAPER.
12. INGRAM, D.J. AND AVILA, I.C. Improving our understanding of aquatic wild meat: database requirements and research agenda. 13pp.
13. EMIN-LIMA, R., SICILIANO, S., MOREIRA, R.H.M., JR., PEREIRA, T.S., AMARAL, T.M.M.M. AND SILVA DE PAULA, W. Unrecognized and so many threats: case studies in conservation of the Araguaian boto (*Inia araguaiaensis*). 8pp.
14. MOSQUERA-GUERRA, F., TRUJILLO, F., OLIVEIRA-DA-COSTA, M., MARMONTEL, M., ARMENTERAS-PASCUAL, D., USMA, S., WILLEMS, D., CARVAJAL-CASTRO, J.D., MANTILLA-MELUK, H., FRANCO, N., AMOROCHO, D., MALDONADO, R., BERG, K., SAINZ, L. AND VAN DAMME, P.A. Movements and habitat use of river dolphins (Cetartiodactyla: Iniidae) in the Amazon and Orinoco river basins, determined from satellite tagging. 27pp.
15. BROWNELL, J., R.L., MALLETT, S.D. AND REBOLLEDO, R. Illegal totoaba fishing in San Felipe, Mexico in January 2018. 7pp.
16. MOSQUERA-GUERRA, F., TRUJILLO, F., PARKS, D., OLIVEIRA-DA-COSTA, M., MARMONTEL, M., ARMENTERAS-PASCUAL, D., USMA, S., WILLEMS, D., CARVAJAL-CASTRO, J.D., MANTILLA-MELUK, H., FRANCO, N., AMOROCHO, D., MALDONADO, R., BERG, K., SAINZ, L., VAN DAMME, P.A. AND CAMPBELL, E. Analysis of distribution of river dolphins (*Inia* and *Sotalia*) in protected and transformed areas in the Amazon and Orinoco basins. 24pp.
17. NO PAPER.
18. NO PAPER.
- 18rev1. NO PAPER.
19. FRUET, P.F., DAURA-JORGE, F., GENOVES, R.C., BEZAMAT, C., DI TULLIO, J.C., SIMOES-LOPES, P.C. AND SECCHI, E.R. A review on the life history parameters and threats to bottlenose dolphins in two estuaries of southern Brazil. 15pp.

## SC/67b/WW

01. ROSE, N.A., FRISCH-NWAKANMA, H., SMITH, C., SMITH, S. AND FERRISS, S. Update on swim-with-whales intersessional group. 2pp.
02. WULFF, R. Whale Watching Strategic Plan (2018-2024) - draft. 6pp.
03. NOTARBARTOLO DI SCIARA, G. AND FRISCH-NWAKANMA, H. Work on recreational in-water interactions with aquatic mammals under the Convention on Migratory Species (CMS). 2pp.
04. VILCHES, F.O., ROWNTREE, V.J., SIRONI, M. AND MOREDA, C.M. Incorporating whale-watch photographs into a 47-year aerial photoidentification catalog for a better assessment of the population dynamics of southern right whales off Argentina. 6pp.
05. CLARK, A., ANDERSON, H. AND HEATON, S. Indian Ocean Rim Association (IORA) Sustainable Whale and Dolphin Watching Tourism Network. 10pp.
06. NUNNY, L. AND SIMMONDS, M. Solitary sociable dolphins: a preliminary update. 12pp.
07. PARSONS, E.C.M. AND SMITH, C.E. Recent advances in whale watching research 2017-2018. 22pp.
08. MINTON, G., FERRISS, S. AND WULFF, R. Report on the development of the online IWC Whale Watching Handbook. 12pp.
09. NEW, L. Update on the Modelling and Assessment of Whale Watching Impacts (MAWI) Steering Group. 4pp.

## PLENARY PAPERS

### SC/67b/

01. IWC Secretariat. Financial position of the Research Fund. 12pp.
- 01rev1. IWC Secretariat. Financial position of the Research Fund. 12pp. REVISED.

## COMMISSION DOCUMENTS

### SC/67b/COMM

01. Cooperation with other organisations. 12pp.
- 01rev1. Cooperation with other organisations. 13pp.
- 01rev2. Cooperation with other organisations. 14pp.

## PROGRESS REPORT SUMMARIES

### SC/67b/ProgRep

01. Croatia. 4pp.
02. Netherlands. 4pp.
03. New Zealand. 7pp.
04. Japan. 8pp.
05. Argentina. 6pp.
06. Iceland. 3pp.
07. United States of America. 10pp.
08. Spain. 28pp.
- 08rev1. Spain. 28pp.
- 08rev2. Spain. 28pp.
09. Mexico. 4pp.
10. Italy. 8pp.
11. Republic of Korea. 4pp.
12. Denmark. 4pp.
13. Norway. 3pp.
14. Brazil. 5pp.
15. France. 7pp.
16. UK. 4pp.
17. Australia. 18pp.
18. Germany. 3pp.
19. Panama. 4pp.

## REPORTS FROM INTERSESSIONAL MEETINGS

### SC/67b/Rep

01. Report of the Workshop on the Poorly Documented Takes of Small Cetaceans in South America: including in-depth review of the hunting of the Amazon River dolphin (*Inia geoffrensis*) for the piracatinga (*Calophysus macropterus*) fishery, 19th - 21st March 2018, City of Santos, Brazil. 68pp.
02. Report of the Second *Implementation Review* Workshop on Western North Pacific Bryde's Whales, 14-16 February 2018, Tokyo, Japan. 23pp.
03. Report of the Workshop on Identifying Key Research Questions for the Modelling and Assessment of Whale Watching Impacts (MAWI), 5-6 April 2018, La Spezia, Italy. 17pp.
- 03rev1. Report of the Workshop on Identifying Key Research Questions for the Modelling and Assessment of Whale Watching Impacts (MAWI), 5-6 April 2018, La Spezia, Italy. 16pp. REVISED: edited.
04. Report of the Planning Meeting for the 2018 and 2019 IWC-POWER Cruise in the North Pacific, 15-17 September 2017, Tokyo, Japan. 27pp.
05. Report of the Workshop on Western North Pacific Common Minke Whale Stock Structure in Preparation for the Start of the *Implementation Review* in April 2018, 12-13 February 2018, Tokyo, Japan. 11pp.
06. Report of the 2017 AWMP Workshops on the Development of SLAs for the Greenlandic Hunts, 18-21 October 2017, Copenhagen, Denmark. 25pp.
07. Report of the Fifth Rangewide Workshop on the Status of North Pacific Gray Whales, 28-31 March 2018, Big Sur, California, USA. 21pp.
- 07rev1. Report of the Fifth Rangewide Workshop on the Status of North Pacific Gray Whales, 28-31 March 2018, Big Sur, California, USA. 43pp. REVISED: appendices added.
08. NO PAPER.
09. Report of the SM/SD Joint Intersessional Workshop: Resolving *Tursiops* Taxonomy Worldwide, 12-14 January 2018, La Jolla, CA, USA. 47pp.