

Agenda – 2nd Climate Change (CC2) Workshop

**=presenter*

A. Welcome from Convener and introductory comments

B. Election of Chair and Rapporteurs

C. Key Note presentations

- The first IWC workshop on climate change and subsequent developments – (Reilly)
- An evaluation of cetacean vulnerabilities (Aguilar*/Simmonds et al.)
- Oceanographic changes scenarios under climate change models (Hoffman -Antarctic and Overland Arctic)
- Prey and ecosystems (Forcarda*, Ashjian, Nicol)
- Risk Scenarios: pollutants & cetaceans under climate change models (Krahn*, Simmonds and others)

D. Background materials (new papers provided but not presented)

- The Physical Stage (Hoffman*, Overland*, Smith)
- Human Responses and Consequences, including adaptive management responses (Robert*/WWF/Mark)
- “Whale Fertilizer” Ho. – Southern Ocean (Victor Smetacek)

E. Techniques to investigate effects of climate change/Identifying Case Studies

- Methodological approaches relating cetaceans to their habitat
- Long term data sets.
- Biochemical tools and physiological indicators : Alex Aguilar* + Sarah Iverson or Christina Lockyer
- Retrospective study of archived biological specimens (e.g. baleen or bone): Luis Cardona* + Vicky Rowntree
- Monitoring of small cetaceans in shallow habitats: Randy Wells* + Brian Smith
- Genetics from historical/ancient samples to investigate climate change: bowhead and gray whale case studies (Alter and Rosenbaum)

F. Key Studies

1. Presentation of Case Studies and modelling results

1.1 Examination of long-term data-sets

- Key Study 1: Arctic: Chukchi-Beaufort bowheads and gray whales
- John Brandon* and Andre Punt - Assessment of the eastern stock of North Pacific gray whales: incorporating calf production, sea-ice and stranding data.

- Craig George*, Cheryl Rosa, Robert Suydam - BCB bowhead whale body condition and sea ice in the western arctic
- M. P. Heide-Jorgensen*, K.L. Laidre, H. Stern, M. Ribergaard and A. Rosin-Asvid Climate change in West Greenland and its consequences for cetaceans
- Key Study 2: Western South Atlantic and Southern Ocean: southern right whales (possibly humpback and minke whales)
- Vicky Rowntree and Justin Cook and Russell Leaper: Right whales
- Steve Nicol and Angus Atkinson: 'Krill and other zooplankton in the Antarctic Peninsula region and Eastern Antarctica'.

1.2 Other studies

- Key Study 3: cetacean assemblages in the riverine and shallow waters of Bangladesh
Brian Smith* Key Study 3
- Other Studies: other regions/populations/datasets

1.3. Evaluate analytical and modelling approaches used at the workshop and develop recommendations for refinement and alternative approaches.
Andre Punt, Discussion Lead

1.4. Synthesise conclusions from key studies and review implications for cetaceans in other regions, including vulnerable species and populations.

G. Identification of resulting peer-reviewed publications; selection of topic editors and establishment of schedule to publication.

H. Proposed future investigations

I. Implications for the work of the IWC and other conservation organizations.

J. Connections with other international initiatives and processes.

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