

**IWC Workshop on Whales and Climate Change,
21 – 25 February 2009, Sienna, Italy**

Draft Agenda (17 FEB 09.v6)

1. Introductory items
 - 1.1. Welcome and introduction (Convenor & SWGEC Chair)
 - 1.2. Terms of reference (Convenor)
 - 1.3. Election of chair and appointment of rapporteurs
 - 1.4. Meeting procedures and time schedule
 - 1.5. Adoption of agenda
 - 1.6. Documents available
 - 1.6.1 Arctic Climate Change Scenarios (Overland ppt)
 - 1.6.2 Antarctic Climate Change Scenarios (Hofmann ppt)
 - 1.7. Publication of proceedings
2. Review of outcomes from relevant meetings
 - 2.1. The first IWC Climate Change Workshop (Simmonds)
 - 2.2. Costa Rica Whales and Climate Change Workshop (Simmonds and Palacios)
 - 2.3. CCAMLR-IWC workshop (Gales)
 - 2.4. The Implications of Climate Change for Arctic Marine Mammals: US MMC Monitoring Framework & CAFF Marine Expert Monitoring Group (Moore)
 - 2.5. Other meetings
3. Setting the Scene: Introductory presentations
 - 3.1. Cetacean vulnerabilities to climate change
 - 3.1.1. The development of climate change sensitivity indicators (Simmonds and others: Introduction to indicators)
 - 3.1.2. Evaluation of cetacean vulnerabilities (General discussion)
 - 3.1.3. Impacts on cetaceans from the interaction of Climate Change with Persistent Organic Pollutants (Krahn)
 - 3.2. Changes in the biological environment
 - 3.2.1. Baleen whales and climate change in the Southern Ocean (Nicol) (Forcada)
 - 3.2.2. Baleen whales and climate change in the Pacific Arctic Region: bowhead and gray whale focus (Ashjian)
 - 3.2.3. Climate change and inshore small cetaceans (Wells and Smith)
 - 3.3. Modelling the impacts of climate change on management strategies: examples from fisheries (Punt)
4. Empirical techniques to investigate linkages between whales and their environment: some examples
 - 4.1. Biochemical tools and physiological indicators and their use in retrospective studies of archived material (Aguilar, Rountree, Iverson and Lockyer)

- 4.2. Ancient DNA and climate change: Examples from Bowhead and Gray whales (Alter)
5. Cetaceans and Climate Change: Case Studies
 - 5.1. Large Cetaceans
 - 5.1.1 Long-term cetacean datasets in the Southern Hemisphere (Ferguson, Zerbini, Leaper)
 - 5.1.2 Southern Right Whales and Climate Change: Example from the Western South Atlantic and Southern Ocean (Rowntree, Cooke and Leaper)
 - 5.1.3 Assessment of the eastern stock of North Pacific Gray whales; incorporating calf production, sea-ice, and stranding data (Brandon and Punt)
 - 5.1.4 BCB bowhead whale body composition and sea-ice in the western Arctic (George, Rosa, Suydam)
 - 5.1.5 Climate change in West Greenland and its consequences for cetaceans (Laidre)
 - 5.2. Small Cetaceans
 - 5.2.1. Cetacean assemblages in the riverine and shallow waters of Bangladesh (Smith)
6. Evaluation of analytical and modelling approaches to investigate linkages between whales and their environment (A discussion led by Punt)
 - 6.1. Strengths and weaknesses of existing approaches
 - 6.2. Key data and analysis needs
 - 6.3. Conclusions
7. Regional working groups: Small groups tasked with deriving regional-scaled conclusions on key vulnerabilities, knowledge gaps, recommendations for future research and interactions of CC effects with other anthropogenic impacts.
 - 7.1. Large whales:
 - 7.1.1. Southern Ocean
 - 7.1.2. Arctic
 - 7.1.3. Temperate
 - 7.2. Small cetaceans
8. Conclusions and recommendations to Scientific Committee
 - 8.1 Synthesise conclusions from key studies and review implications for cetaceans in other regions, including vulnerable species and populations
 - 8.2 Agreed statement on current effects of climate change on cetaceans (Chair, rapporteurs and convenor to prepare draft through the meeting)
 - 8.3 Recommendations for future research
 - 8.3.1 Long term data sets
 - 8.3.2 Analytical approaches
 - 8.3.3 Proposed future investigations
 - 8.3.4 Implications for the work of the IWC and other conservation organizations
 - 8.3.5 Connections with other international initiatives and processes.
 - 8.3.6 Plans for publications arising from CC2 workshop

9. Any other business

10. Adoption of report