Annex A List of Participants

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Rudolf Borodin (H) Valentin Ilyashenko Vladimir Melnikov Valery Vladimirov Olga Ipatova (I)

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St. Lucia Jeannine Rambally (H)

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Spain Santiago Lens (H)

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Johnny Young (EXXON)

IWC

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

Annex B1

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
 - 3.3.1 Catch data and other statistical material
 - 3.3.2 Progress of data coding projects and computing tasks
- 4. Cooperation with other organisations
 - 4.1 Convention on the Conservation of Migratory Species (CMS)
 - 4.1.1 Scientific Council
 - 4.1.2 Agreement on Small Cetaceans of the Baltic and North Sea (ASCOBANS)
 - 4.1.3 Agreement on the Conservation of Cetaceans of the Black Sea, Mediterranean Sea and Contiguous Atlantic Area (ACCOBAMS)
 - 4.2 International Council for the Exploration of the Sea (ICES)
 - 4.3 Inter-American Tropical Tuna Commission (IATTC)
 - 4.4 International Commission for the Conservation of Atlantic Tunas (ICCAT)
 - 4.5 Convention for the Conservation of Antarctic Marine Living Resources (CCAMLR)
 - 4.6 Southern Ocean Global Ecosystem Dynamics (SO-GLOBEC)
 - 4.7 North Atlantic Marine Mammal Commission (NAMMCO)
 - 4.8 International Union for the Conservation of Nature (IUCN)
 - 4.9 Food & Agriculture Organisation (FAO)
 - 4.10 North Pacific Marine Science Organisation (PICES)
 - 4.11 Eastern Caribbean Cetacean Commission (ECCO)
- 5. Revised Management Procedure (RMP) general issues (see Annex D)
 - 5.1 Finalise the guidelines and requirements for implementing the RMP
 - 5.1.1 Develop the thresholds for defining 'acceptable', and borderline, performance for classifying the performance of RMP variants for *Implementation Simulation Trials*
 - 5.1.2 Develop a list of agreed stock structure archetypes

- 5.2 Further develop the 'simple model filter'
- 5.3 Finalise the issue of spatio-temporal considerations
- 5.4 Finalise the issue of the CATCHLIMIT program for running it in trials situation
- 5.5 Proposal for revision of the RMP
- 5.6 Other
- 5.7 Work plan
- RMP preparations for *Implementation* (see Annex D)
 6.1 Western North Pacific Bryde's whales
 - 6.1.1 Report from the intersessional Workshop on the *pre-Implementation assessment* for western North Pacific Bryde's whale
 - 6.1.2 Preparation for *Implementation* 6.1.2.1 Progress on *pre-Implementation* 6.1.2.2 Recommended action
 - 6.2 Review of information on the North Atlantic fin whale
 - 6.2.1 Review progress on the development of stock structure hypotheses as part of the *pre-Implementation assessment* for North Atlantic fin whales.
 - 6.2.2 Planning for completion of the pre-Implementation assessment
 - 6.3 Work plan
- 7. Estimation of bycatch and other human-induced mortality (Annex J)
 - 7.1 Estimation of bycatch based on fisheries data and observer programmes
 - 7.1.1 Review data from FAO
 - 7.1.2 Review progress on standardised reporting in progress reports
 - 7.1.3 Determination of appropriate coverage rates for estimating cetacean bycatch
 - 7.2 Estimation of bycatch based on genetic data
 - 7.2.1 Review results from intersessional workshop on the market survey approach
 - 7.2.2 Develop recommendations regarding use of market based approaches in RMP context
 - 7.3 Empirical analysis of the functional relationship between bycatch levels to fishing effort and to population abundance
 - 7.4 Information and methods on estimates of cetacean mortality caused by vessel strikes
 - 7.5 Information and methods on estimates of cetacean mortality caused by other human activities
 - 7.6 Work plan
- 8. Aboriginal Subsistence Whaling Management Procedure and stock assessment (see Annex E)
 - 8.1 Greenlandic fisheries and the Greenland research programme
 - 8.1.1 Stock structure, range and movement
 - 8.1.1.1 Genetic information
 - 8.1.1.2 Catch distributions
 - 8.1.2 Abundance and trends
 - 8.1.2.1 Methods
 - 8.1.2.2 Survey results

- 8.1.3 Preliminary consideration of management procedures
- 8.2 Annual review of catch data and management advice for common minke and fin whales off Greenland
 - 8.2.1 Catches
 - 8.2.2 Assessments
 - 8.2.3 Management advice
 - 8.2.3.1 Introduction
 - 8.2.3.2 Common minke whales
 - 8.2.3.3 Fin whales
 - 8.2.3.4 Other research recommendations
- 8.3 Annual review of catch data and management advice for humpback whales off St. Vincent and The Grenadines
- 8.4 Planning for a bowhead whale *Implementation Review* in 2007
- 8.5 Scientific aspects of an Aboriginal Subsistence Whaling Scheme
- 8.6 Work plan
 - 8.6.1 Greenland
 - 8.6.2 Bowhead whales
 - 8.6.3 Priority topics for the 2006 meeting
- 9. Aboriginal subsistence whaling stock assessments on bowhead, right, and gray whales (see Annex F)
 - 9.1 Bering-Chukchi-Beaufort Seas bowhead whale stock identity
 - 9.2 Catch data and management advice for the Bering-Chukchi-Beaufort Seas bowhead whale 9.2.1 Catch information
 - 9.2.2 Management advice
 - 9.3 Catch data and management advice for the eastern North Pacific gray whale9.3.1 Catch information9.3.2 Management advice
 - 9.4 Implications of the special pre-meeting: sea ice and whale habitat
 - 9.5 Catches by non-member countries
 - 9.6 Work plan
- 10. Whale stocks
 - 10.1 Antarctic minke whales (see Annex G)
 - 10.1.1 Estimate abundance of Antarctic minke whales
 - 10.1.1.1 The 2004/05 SOWER cruise
 - 10.1.1.2 Results from simulated data
 - 10.1.1.3 Results from cruise data
 - 10.1.1.4 Additional variance
 - 10.1.1.5 Estimate abundance using JARPA data
 - 10.1.2 Reasons for differences between Antarctic minke abundance estimates from CPII and CPIII
 - 10.1.2.1 Implications of sea ice and whale habitat
 - 10.1.2.2 Population dynamic model method to estimate trends and possible differences
 - 10.1.2.2.1 Report from intersessional working group
 - 10.1.2.2.2 Abundance estimates from SOWER and JARPA used in

- population dynamic models
- 10.1.2.2.3 Results from pre-
 - -liminary analyses
- 10.1.2.3 Other
- 10.2.1 Report from intersessional steering group
- 10.2.2 Distribution and abundance
 - 10.2.2.1 Plans for future surveys
- 10.2.3 Stock structure
- 10.2.4 Biological parameters
- 10.2.5 Total takes
- 10.2.6 Assessment methodology
- 10.2.7 Other
- 10.2.8 Future work
- 10.3 Southern Hemisphere whale stocks other than Antarctic minke and right whales (see Annex H)
 - 10.3.1 In-depth assessment of Southern Hemisphere humpback whales
 - 10.3.1.1 Report of the interssessional group
 - 10.3.1.2 Distribution and allocation of
 - historic catches
 - 10.3.1.3 New information on abundance, rates of increase and stock structure
 - 10.3.1.4 Population dynamics modelling
 - 10.3.1.5 Antarctic humpback whale catalogue
 - 10.3.2 Assessment of Southern Hemisphere blue whales
 - 10.3.2.1 New information
 - 10.3.3 Work plan
- 10.4 Other small stocks bowhead, right and gray whales (see Annex F)
 - 10.4.1 Small stocks of bowhead whales
 - 10.4.2 North Atlantic right whales
 - 10.4.3 Southern Hemisphere right whales
 - 10.4.4 Other small stocks of right whales
 - 10.4.5 Western North Pacific stock of gray whales 10.4.6 Work plan
- 10.5 Future SOWER cruises (see Annex G)
 - 10.5.1 Report from intersessional workshop
 - 10.5.2 Recommendations for future SOWER cruises
 - 10.5.2.1 2005/06 season
 - 10.5.2.2 Long term
- 10.6 Other
 - 10.6.1 Report from a non-IWC sponsored workshop on sperm whales
 - 10.6.2 Consideration of proposals for further indepth assessments
 - 10.6.3 Historic abundance estimation, genetic methods
 - 10.6.3.1 Genetic issues (notably mode and rate of mtDNA mutations to translate genetic diversity into effective population size)
 - 10.6.3.2 Statistical reliability of catch records
 - 10.6.3.3 Other issues
- 10.7 Work plan and budget request

10.7.1 Sub-committee on in-depth assessments

- 11. Stock definition (see Annex I)
 - 11.1 Review progress on the TOSSM project (Testing Of Spatial Structure Models)

- 11.2 Review of statistical and genetic issues relating to population structure (including DNA quality issues)
- 11.3 Definition of unit-to-conserve and the implications for management
- 11.4 Work plan and draft agenda for 2006 11.4.1 Further work on TOSSM
 - 11.4.2 Draft agenda for 2006
- 12. Environmental concerns (see Annex K)
 - 12.1 Sea ice and whale habitat workshop
 - 12.2 Review of the report of the habitat degradation workshop
 - 12.3 Habitat related issues
 - 12.3.1 Steering group report on POLLUTION 2000 +
 - 12.3.2 Progress report on Southern Ocean Collobaration Working Group
 - 12.3.3 State of the Cetacean Environment Report (SOCER)
 - 12.3.4 Arctic issues
 - 12.3.5 Anthropogenic noise
 - 12.3.6 Other
 - 12.4 Work plan
 - 12.4.1 SOCER
 - 12.4.2 Sea ice
 - 12.4.2.1 Arctic
 - 12.4.2.2 Antarctic
 - 12.4.3 Seismic workshop
 - 12.4.4 Disease
- 13. Small cetaceans (see Annex I)
 - 13.1 Review of the status of finless porpoise (marine populations)
 - 13.1.1 Distribution and stock structure
 - 13.1.2 Abundance
 - 13.1.3 Life history
 - 13.1.4 Ecology and habitat
 - 13.1.5 Directed and incidental takes
 - 13.1.6 Consideration of status
 - 13.2 Progress on previous recommendations
 - 13.2.1 Baiji
 - 13.2.2 Vaquita
 - 13.2.3 Harbour porpoise
 - 13.2.4 Humpback dolphin (Sousa spp.)
 - 13.2.5 Irrawaddy dolphin
 - 13.2.6 Other recommendations
 - 13.3 Consideration of revision of IWC cetacean list
 - 13.4 Takes of small cetaceans
 - 13.5 Work plan
- 14. Whalewatching (see Annex M)
 - 14.1 Report of intersessional Working Group
 - 14.2 Biological impacts of whalewatching on whales
 - 14.3 Review of published whalewatching guidelines and regulations
 - 14.4 Development of the scientific foundation of whalewatching guidelines
 - 14.5 Other topics
 - 14.5.1 Review of risk to cetaceans of high-speed whalewatching boats
 - 14.5.2 Review of potential impacts of 'swimwith' programmes on populations of cetaceans

- 14.5.3 Other 14.6 Work plan
- 15. DNA testing (see Annex N)
 - 15.1 Progress on genetic methods for species, stock and individual identification
 - 15.2 Collection and archiving of samples from catches and bycatch
 - 15.3 Reference databases and standards for a diagnostic register of DNA profiles
 - 15.4 Work plan
- 16. Scientific permits (see Annex O)
 - 16.1 Review of results from existing permits
 - 16.1.1 Japan Antarctic minke whales
 - 16.1.2 Japan North Pacific common minke, Bryde's, sei and sperm whales
 - 16.1.3 Iceland North Atlantic common minke whales
 - 16.1.4 Review report from non-IWC meeting on JARPA results
 - 16.1.5 Preparations for JARPA review
 - 16.1.6 Responses to previous Scientific Committee reviews
 - 16.2 Review of new or continuing proposals
 - 16.2.1 JARPA II
 - 16.2.2 JARPN II
 - 16.2.3 Iceland
 - 16.3 Proposals to facilitate the review process of scientific permits
- 17. Whale sanctuaries
 - 17.1 Background information regarding reviews of sanctuary proposals
 - 17.2 Instructions from the Commission to the Scientific Committee for reviews of Sanctuaries 17.2.1 Proponents section 17.2.2 Opponents section

 - 17.2.3 Recommendations from the Commission for reviews of Sanctuaries
 - 17.3 Recommendations from the 2004 Scientific Committee meeting for reviews of Sanctuaries
- 18. Research and workshop proposals and results
 - 18.1 Results from previously funded research proposals
 - 18.2 Review proposals for 2005/2006
- 19. Committee priorities and initial agenda for the 2006 meeting 19.1 Committee priorities for SC/57 (2005) 19.2 Committee priorities for SC/58 (2006)
- 20. Data processing and computing needs for 2005/2006
- 21. Funding requirements for 2005/2006
- 22. Working methods of the Committee
- 23. Election of officers
- 24. Publications
- 25. Other business
- 26. Adoption of report

Annex B2

Relationship Between Commission and Scientific Committee Agendas

This table is intended to assist readers in finding information relative to the Commission agenda (IWC/57) in the Scientific Committee Report (SC/57) and the Chair's Report (2005) of IWC/56. Commission agenda items not in this summary were not addressed at the Scientific Committee meeting.

No.	Commission Agenda	Scientific Committee Agenda Item and Annex	Chair's Report (2005: Agenda Item)
4.	WHALE STOCKS		4 and 5
1	Antarctic minke whales		4.2
1.1	Report of the Scientific Committee	10.1, 10.5; Annex G	
2	In-depth assessment of western North Pacific common minke whales		4.1
2.1	Report of the Scientific Committee	10.2; Annex G	1.2
3	Southern Hemisphere whales other than minke whales		4.3
3.1	Report of the Scientific Committee	10.3; Annex H	4.4
4 4.1	Other small stocks- bowhead, right and gray whales Report of the Scientific Committee	10 4: Annov E	4.4
4.1 5	Other	10.4; Annex F 10.6	14.2
	ABORIGINAL SUBSISTENCE WHALING	10.0	
1		9. Annov E	5
2	Aboriginal subsistence whaling scheme Aboriginal subsistence catch limits	8; Annex E 9; Annexes E, F	5.1, 5.2 5.3
	e	9, Annexes E, F	
1	REVISED MANAGEMENT SCHEME		6
1 1.1	Revised Management Procedure (RMP)		6.1; 6.2
1.1	Report of the Scientific Committee General issues 	5; Annex D	
		6.1, 6.2; Annex D	
	 Preparations for Implementation (western North Pacific Bryde's whale, North Atlantic fin whale) 	0.1, 0.2, Annex D	
	Bycatch	7; Annex J	
		, , , , , , , , , , , , , , , , , , ,	0
1	SANCTUARIES Bronged to grand the Schedule to establish a South Atlantic Whale		8
.1	Proposal to amend the Schedule to establish a South Atlantic Whale		8.4
1.2	Sanctuary Reports from the Scientific Committee and Conservation Committee	17; Annex P	
			10
).	SCIENTIFIC PERMITS		10
).1	Report of the Scientific Committee	16; Annex O	10.1
).1.1	Review results of existing permits	16.1; Annex O	
).1.2).1.3	Review of new or revised permits Other	16.2; Annex O	
			11
l.	ENVIRONMENT AND HEALTH ISSUES		11
l.1 l.1.1	Sea ice and whale habitat Report of the Scientific Committee	12 1: Annov K	11.1
.1.1	Review of the workshop on habitat degradation	12.1; Annex K	11.1
.2.1	Report of the Scientific Committee	12.2: Annex K	11.1
.2.1	Other habitat-related issues	12.2. Funiça K	
.3.1	Report of the Scientific Committee		
	 POLLUTION 2000+ 	12.3.1; Annex K	
	SO-GLOBEC/CCAMLR	12.3.2; Annex K	
	• State of the Cetacean Environment (SOCER)	12.3.3; Annex K	
	Arctic issues	12.3.4; Annex K	
	Anthropogenic noise	12.3.5; Annex K	
2.	WHALEWATCHING		12
2. 2.1	Report of the Scientific Committee	14; Annex M	12
		1 1, / HINOA 191	12
3. 3.1	COOPERATION WITH OTHER ORGANISATIONS	4	13 13.1
	Report of the Scientific Committee	4	
4.	OTHER SCIENTIFIC COMMITTEE ACTIVITIES, FUTURE		14
	WORK PLAN AND ADOPTION OF SCIENTIFIC COMMITTEE		
4.1	REPORT Small cetaceans		14.1
+.1 4.1.1	Report of the Scientific Committee	13; Annex L	14.1
4.1.1 4.2	Other activities	15, AIIICA L	14.2
+.2 4.2.1	Report of the Scientific Committee	11, 15, 18, 20, 22, 23, 24;	17.2
	Report of the belentine commute	Annexes I, N	
4.3	Scientific Committee future work plan		14.3
4.3.1	Report of the Scientific Committee	19	
).	FINANCIAL STATEMENTS AND BUDGETS	-	22
0. 0.2	Consideration of estimated budgets, 2004/05 and 2005/06	21	22.2
0.4	Consideration of estimated budgets, 2004/05 and 2005/00	∠ 1	LL.L

Annex C

List of Scientific Committee Papers

SC/57/PFI

- 1. KITAKADO, T., SHIMADA, H., OKAMURA, H. AND MIYASHITA, T. Review of abundance estimate and additional variance for the western North Pacific stock of Bryde's whales.
- 2. PUNT, A.E., KISHIRO, T. AND ALLISON, C. Progress on estimating distribution proportions for western North Pacific Bryde's whales using a 'simple model filter'.
- 3. VÍKINGSSON, G.A. AND GUNNLAUGSSON, TH. Stock structure of fin whales (*Balaenoptera physalus*) in the North Atlantic indications from non-genetic data.
- 4. DANÍELSDÓTTIR, A.K., STEFÁNSSON, M.O., THORGILSSON, B., JORUNDSDOTTIR, TH. D., RAGNARSDOTTIR, A., ARNASON, A., GUNNLAUGSSON, TH., VÍKINGSSON, G.A., ÓLAFSDÓTTIR, D., BÉRUBÉ, M., PALSBØLL, P.J., ØIEN, N., WITTING, L. AND PAMPOULIE, C. Genetic analysis of North Atlantic fin whales (*Balaenoptera physalus*): Is there more than one breeding unit at the feeding ground west off Iceland?

SC/57/RMP

- 1. PUNT, A.E. Some thoughts related to defining criteria for evaluating performance for *Implementation Simulation Trials*.
- 2. [NO PAPER]
- 3. ALDRIN, M. AND SCHWEDER, T. Revision of RMP Status of ongoing work at the Norwegian Computing Center.

SC/57/AWMP

- 1. WITTING, L. Aerial image estimation of minke whale surface time.
- 2. WITTING, L. AND PIKE, D.G. Applying aerial digital photo based strip-width surveys to minke whales.
- 3. WITTING, L. AND KINGSLEY, M. Abundance of marine mammals off West Greenland, 2002-2004.
- 4. WITTING, L. An assessment of minke whales off West Greenland.
- 5. WITTING, L. An assessment of fin whales off West Greenland.
- 6. PUNT, A.E. A Bayesian multi-stock assessment model.
- 7. ROBBINS, J., ALLEN, J.M., CLAPHAM, P.J. AND MATTILA, D.K. Stock identity of a humpback whale taken in a southeastern Caribbean hunt.
- 8. [NO PAPER]
- CLAPHAM, P., BARCO, S., JANN, B., MARTINEZ, A., MATTILA, D., NELSON, M., PALSBØLL, P., PACE, R., ROBBINS, J., RONE, B. AND WENZEL, F. Update on a new assessment of North Atlantic humpback whales.
- 10. KINGSLEY, M.C.S. An update on the distribution of takes of fin and minke whales in West Greenland.
- 11. PALSBØLL, P.J., BÉRUBÉ, M., ANDERSEN, L.W. AND WITTING, L. Individual assignment and migrant detection probabilities at high levels of gene flow; how many loci and samples to estimate the proportion immigrant minke whales off West Greenland.

SC/57/BC

- 1. FÉLIX, F. AND VAN WAEREBEEK, K. Whale mortality from ship collisions underreported, case studies from Ecuador and West Africa.
- 2. [NO PAPER]
- 3. SECCHI, E.R., WANG, J.Y., DALLA-ROSA, L., YANG, S-C. AND REEVES, R.R. Global review of interactions between cetaceans and longline fisheries: preliminary data.
- 4. CIPRIANO, F. Cetacean product types, package, sizes, and per-item costs in Japanese commercial whale meat outlets.
- COOKE, J., LAVERY, S., UN, M.Y., DALEBOUT, M., FUNAHASHI, N., CARRAHER, C., ROBERTSON, K., BROWNELL, R., JR. AND SCOTT, C.S. Inference on bycatch levels from genetic identification of individual minke whales (*Balaenoptera acutorostrata* subsp.) on Korean markets 1999-2003.

SC/57/BRG

- 1. WELLER, D.W., BURDIN, A.M., BRADFORD, A.L., IVASHCHENKO, Y.V., TSIDULKO, G.A., LANG, A.R. AND BROWNELL, R.L., JR. Status of western gray whales off northeastern Sakhalin Island, Russia, in 2004.
- BEST, P.B., BRANDÃO, A. AND BUTTERWORTH, D.S. Updated estimates of demographic parameters for southern right whales off South Africa.
- 3. STAFFORD, K.M. AND MOORE, S.E. Provisional analysis of bowhead and gray whale calls recorded on autonomous instruments in the Beaufort Sea, 2003-2004.
- 4. GIVENS, G.H. Confounding of age and temporal separation in analysis of genetic correlation in Bering-Chukchi-Beaufort Seas bowhead whales.
- 5. BRANDON, J.R., BREIWICK, J.M., PUNT, A.E. AND WADE, P.R. Alternative resampling schemes for life history parameters used in Bayesian stock assessments of bowhead whales.
- 6. BRANDON, J.R., BLOKHIN, S.A., BROWNELL, R.L., JR. AND PUNT, A.E. Preliminary summary of catch data for the Soviet aboriginal fishery for the eastern Pacific gray whale: 1980-1991.
- 7. SIRONI, M., KRAUS, S.D., NORDHEIM, E.V., ROWNTREE, V.J. AND SNOWDON, C.T. Age estimation of North Atlantic right whales by allometric measurements on photographs.
- 8. BORGE, T., BACHMANN, L. AND WIGG, Ø. Genetic variation in Holocene bowhead whales (*Balaena mysticetus*) in the Northeast Atlantic.
- 9. YAKOVLEV, Y.M. AND TYURNEVA, O.Y. A note on photo-identification of the western gray whale (*Eschrichtius robustus*) on the northeastern Sakhalin shelf, Russia, 2002-2004.
- 10. SCHWEDER, T., JORDE, P.E., AND STENSETH, N.C. Temporal genetic pattern in BCB bowhead whales in the fall migration at Barrow: a reflection of a structured population?

- 11. POSTMA, L.D., DUECK, L.P., HEIDE-JØRGENSEN, M.P., DE MARCH, B.G.E. AND COSENS, S.E. Molecular genetic relationships among bowhead whales (*Balaena mysticetus*) in Eastern Canadian Arctic and Western Greenland waters.
- 12. OLAVARRÍA, C., MORAGA, R. AND FLORES, M. Update on the eastern South Pacific southern right whale (*Eubalaena australis*) population.
- 13. CLAPHAM, P. Update on North Atlantic right whale research and management.
- 14. LANG, A.R., WELLER, D.W., LEDUC, R.G., BURDIN, A.M. AND BROWNELL, R.L., JR. Genetic assessment of the western gray whale population: current research and future directions.
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- 2. Report of the IWC Scientific Committee Workshop on Habitat Degradation, Siena, Italy, 12-15 November 2004.
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- 4. Report of the Initial Workshop in the Use of Market Sampling to Estimate Bycatch of Large Whales, Ulsan, South Korea, 27-28 May 2005.
- Report of the Symposium on High Latitude Sea Ice Environments: Effects on Cetacean Abundance, Distribution and Ecology, Ulsan, South Korea, 28-29 May 2005. A Joint Symposium Hosted by the Environmental Concerns Working Group.

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