Sweden. Progress report on cetacean research, May 2009 to April 2010, with statistical data for the *calendar year* 2009

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This report summarises information obtained from:

Name of agency/institute	Abbreviation (use in rest of report)	Contact e-mail address
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1. SPECIES AND STOCKS STUDIED

A tabular format is most appropriate. Please indicate where in the report the species is mentioned and use IWC recommended names (see IWC, 2006, Annex L). For subsequent items, common names are preferred. e.g.:

IWC common name	IWC recommended scientific name	Area/stock(s)	Items referred to
Harbour porpoise	Phocoenan phocoena	Baltic Sea, Kattegatt, Skagerrak	2.1.2; 4.2; 4.3; 7.3; 8
Humpback whale	Megaptera novaeangliae	3.1.1; 4.1	
Indo-Pacific Bottlenose dolphin	Orcaella brevirostris	Zanzibar, Tanzania	3.1.1; 4.1
Indo-Pacific Humpback Dolphin	Sousa chinensis	Zanzibar, Tanzania	3.1.1; 4.1
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2. SIGHTINGS DATA

2.1 Field work

2.1.2 Opportunistic, platforms of opportunity

Primary species	Area	Data type/method	Collected by	Platform	Location of archive (if applicable)	Contact person/institute and refs
Harbour porpoise	Swedish waters (Skagerrak, Kattegatt and the Baltic Sea)	sightings	The public, coast guard, etc. via a web-page	Boat, ferry or from land	SMNH	www.nrm.se/tumlare Anna Roos, Swedish museum of Natural History, Box 50007, SE 104 05 Stockholm, Sweden

3. MARKING DATA

3.1 Field work

3.1.1 Natural marking data

SU conducted photo-id boat surveys, biopsy sampling and sound recordings of humpback whales off the south coast of Zanzibar, Tanzania, between July and September 2009.

Species	Feature	Area/stock	No. photo- id'd	Catalogue (Y/N)	Catalogue total	Contact person/institute; refs
I.P. Bottlenose dolphin	Dorsal fin/ body	Zanzibar		N	170	P. Berggren, SU
I.P. Humpback dolphin	Dorsal fin/ body	Zanzibar		N	70	P. Berggren, SU
Humpback whale	Flukes, dorsal fin	Zanzibar/ C2	183	N	325	P. Berggren, SU

4. TISSUE/BIOLOGICAL SAMPLES COLLECTED

4.1 Biopsy samples (summary only)

iii Diopsy samples	(20000000000000000000000000000000000000					
Species	Area/stock	Calendar year/ season - no. collected	Archived (Y/N)	No. analysed	Total holdings	Contact person/institute
Humpback whale	Zanzibar/ C2	48	Y	0	73	P. Berggren, SU
I.P. Humpback dolphin	Zanzibar	0	-	*	47	P. Berggren, SU
I.P. Bottlenose dolphin	Zanzibar	0	-	*	6	P. Berggren, SU

^{*} MtDNA and microsatellite analyses ongoing

4.2 Samples from directed catches (commercial, aboriginal and scientific permits) or bycatches

Species	Area/stock	Tissue type(s)*	No. collected	Archived (Y/N)	No. analysed	Contact person/institute
Harbour porpoise	The Kattegatt	several	1	y	0	Anna Roos, SMNH

^{*}e.g. liver, skin, blubber ovaries, etc.

4.3 Samples from stranded animals

Species	Area/stock	Tissue type(s)*	No. collected	Archived (Y/N)	No. analysed	Contact person/institute
Harbour porpoise	The Kattegatt	several	1	У	0	Anna Roos, SMNH
Harbour porpoise – probably killed by a boat propeller	The Skagerrak	several	1	у	0	"
Harbour porpoise	The Skagerrak	several	1	у	0	"
Harbour porpoise	Öresund	several	3	у	0	"
Harbour porpoise	The Baltic	several	2	у	0	"

7. STATISTICS FOR SMALL CETACEANS

7.3 Anthropogenic mortality of small cetaceans for the calendar year 2009

7.3.1 Observed or reported ship strikes of small cetaceans (including non fatal events)

Species	Sex	No.	Date	Location	Vessel type	Speed	Fate	How observed	Contact person/ institute and refs
Harbour porpoise	Male	1	Found dead ¹ / ₄ - 2009	N58 56,124 E 11 08.547 The Skagerrak	unkno wn				Anna Roos, SMNH It was found dead with wounds that looked like from a boat propeller

7.3.2 Fishery bycatch of small cetaceans

	Ratio of male to female (if known)		No. extrapolated to fleet total (point estimate)	Range, CI or CV	Date of bycatch	Location (description or lat/long)	FAO statistical area (if known)	FAO area	Fate	Targeted species	Gear	 Source or contact
porpoise	female	1			6/7 2009	Between Falkenberg and Glommen, in the Kattegatt					Not noted	
Comments	s: Entangled	in gea	r, cut off and sank									

8. STRANDINGS

Give a paragraph detailing the nature of the strandings reporting process (e.g. completely opportunistic, one or more networks, coastline covered, seasonal coverage). Then complete the following summary table with information where people can go for more details.

Species	No. strandings	No. post mortems	Contact person(s)/ Institute(s)	Contact email address(es)
Harbour porpoise	8	8	Anna Roos, SMNH	anna.roos@nrm.se

11. PUBLICATIONS

11.1 Published or 'In Press' papers only

Särnblad, A, Danbolt, M, Dalén, L, Amir, OA and Berggren P. In Press. Phylogenetic placement and population structure of Indo-Pacific bottlenose dolphins (*Tursiops aduncus*) off Zanzibar, Tanzania. *Marine Mammal Science*

Amir, OA., 2010. Biology, ecology and anthropogenic threats of Indo-Pacific bottlenose dolphis in east Africa. PhD thesis, Stockholm University, Sweden. ISBN 978-91-7447-002-4.

Mwevuraa, H, Amir, OA, Kishimbaa, M, Berggren, P, Kylin, H. 2010. Organohalogen compounds in blubber of Indo-Pacific bottlenose dolphin (*Tursiops aduncus*) and spinner dolphin (*Stenella longirostris*) from Zanzibar, Tanzania. *Environmental Pollution* 158:2200-2207.

Christiansen, F, Lusseau, D, Stensland E and Berggren, P. 2010. Effects of tourist boats on the behaviour of Indo-Pacific bottlenose dolphins off the southcoast of Zanzibar. *Endangered Species Research* 11:91-99.

Wiemann A, Andersen LW, Berggren P, Siebert U, Benke H, Teilmann J, Lockyer C, Kuklik I, Skora K, Roos A, Lyrholm T, Paulus KB, Ketmaier V, Tiedemann R. 2010. Mitochondrial Control Region and microsatellite analyses on Harbour porpoise (*Phocoena phocoena*) unravel population differentiation in the Baltic Sea and adjacent waters. *Conservation Genetics* 11:195–211

Berggren, P. 2009. *Whales and Dolphins – A field guide to marine mammals of East Africa*. Western Indian Ocean Marine Science Association & East Publishing. 130pp. ISBN 978-0-9563285-0-2.