

SWEDEN. PROGRESS REPORT ON CETACEAN RESEARCH, APRIL 2000 TO APRIL 2001, WITH STATISTICAL DATA FOR THE CALENDAR YEAR 2000

Compiled by Per Berggren¹

This report summarises information obtained from:

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1. Species and stocks studied

| Common name | Scientific name | Area/stock(s) | Items referred to |
|---------------------------------|-----------------------------------|---|-------------------|
| Harbour porpoise | <i>Phocoena phocoena</i> | Swedish Skagerrak, Kattegat and Baltic Seas | 4.2, 4.3, 7.1 |
| Minke whale | <i>Balaenoptera acutorostrata</i> | Swedish Skagerrak Sea | 4.3 |
| Long-finned pilot whale | <i>Globicephala melas</i> | Swedish Skagerrak Sea | 4.3 |
| White-beaked dolphin | <i>Lagenorhynchus albirostris</i> | Swedish Skagerrak Sea | 4.3 |
| Indo-Pacific bottlenose dolphin | <i>Tursiops aduncus</i> | Zanzibar, Tanzania | 2.1.1, 3.1.1, 4.2 |
| Indo-Pacific humpback dolphin | <i>Sousa chinensis</i> | Zanzibar, Tanzania | 2.1.1, 3.1.1, 4.2 |
| Spinner dolphin | <i>Stenella longirostris</i> | Zanzibar, Tanzania | 4.2 |
| Rissos dolphin | <i>Grampus griseus</i> | Zanzibar, Tanzania | 4.2 |
| Pygmy sperm whale | <i>Kogia breviceps</i> | Zanzibar, Tanzania | 4.3 |
| Sperm whale | <i>Physeter macrocephalus</i> | Zanzibar, Tanzania | 4.3 |

2. Sightings data

2.1 Field work

2.1.1 Systematic

Photo-identification, ecology and behaviour studies of bottlenose dolphins and humpback dolphins in Menai Bay, Zanzibar, Tanzania, January – March 2001. (SU).

3. Marking data

3.1 Field work

3.1.1 Natural marking data

Analyses of photo-identification data collected 1999 – 2001 of Indo-Pacific bottlenose dolphins and humpback dolphins in Menai Bay, Zanzibar, Tanzania. Preliminary analyses indicate that about 150 bottlenose and 50 humpback dolphins form resident populations in Menai Bay. Contact person Eva Stensland. (SU).

4. Tissue/biological samples collected

Swedish legislation demand that harbour porpoises bycaught or found stranded in the Baltic Sea should be retrieved and submitted to the Swedish Museum of Natural History in Stockholm whereas porpoises from other areas only need to be reported. Although some porpoises from the Skagerrak and Kattegat Seas and Öresund are submitted to the Natural History Museum in Göteborg on a voluntary basis.

Bycaught and stranded cetaceans around Zanzibar, Tanzania have been collected by the Institute of Marine Sciences (IMS). This work is part of a bigger collaborative project between Stockholm University and IMS and funded through the Swedish International Development Agency (Sida). The project was initiated in 1998 and is aimed at assessing the status of marine mammals in Zanzibar and Tanzania.

4.2 Samples from directed catches or by-catches

| Common name | Area/stock(s) | No. collected | Arch ived Y/N | Tissue Type (s) | Contact person/ institute |
|--------------------|--------------------------------|---------------|------------------|---|------------------------------|
| Harbour porpoise | Swedish Kattegat Sea - Öresund | 4 | Y | Skin, blubber, muscle, liver, stomach, reproductive organ, brain, & skeleton. | P. Rudd |
| | Baltic Sea | 1 | Y | | P. Berggren |
| Bottlenose dolphin | Zanzibar, Tanzania | 22 | Y | | P. Berggren |
| Humpback dolphin | Zanzibar, Tanzania | 1 | Y | | P. Berggren |
| Spinner dolphin | Zanzibar, Tanzania | 16 | Y | | P. Berggren |
| Rissos dolphin | Zanzibar, Tanzania | 1 | Y | | P. Berggren |
| Spotted dolphin | Zanzibar, Tanzania | 1 | Y | | P. Berggren |

4.3 Samples from stranded animals

| Common name | Area/stock(s) | 1999: no. collected | Arch ived Y/N | Tissue Type (s) | Contact person/ institute |
|-------------------------|-----------------------|------------------------|------------------|---|------------------------------|
| White-beaked dolphin | Swedish Skagerrak Sea | 1 | Y | Skin, blubber, muscle, liver, stomach, reproductive organ, brain, & skeleton. | P. Rudd |
| Long-finned pilot whale | Swedish Skagerrak Sea | 2 | Y | | P. Rudd |
| Minke whale | Swedish Skagerrak Sea | 2 | Y | | P. Rudd |
| Pygmy sperm whale | Zanzibar, Tanzania | 1 | Y | | P. Berggren |
| Sperm whale | Zanzibar, Tanzania | 1 | Y | | P. Berggren |

5. Pollution studies

None

6. Statistics for large cetaceans

None

7. Statistics for small cetaceans

7.1 For the calendar year 2000

| Common name | Area/stock(s) | Incidental mortality Reported* | Type of fishery |
|------------------|--------------------------------|-----------------------------------|-----------------|
| Harbour porpoise | Baltic Sea | 1 | Gillnet |
| | Swedish Kattegat Sea - Öresund | 4 | Gillnet |

*Incidental reports. No independent observer programme was in force in 2000.

8. Strandings

See 4.3 (same species and number specimens collected).

10. Literature cited

11. Publications

11.1 Published or 'In Press' papers only

Andersen, L., Ruzzante, D.E. Walton, M., Berggren, P., Bjørge, A. and Lockyer, C. Conservation genetics of harbour porpoises, *Phocoena phocoena*, in eastern and central North Atlantic. Submitted to *J. Cons. Genetics*. In press.

Berggren, P., Wade, P., Carlström, C. and Read, A.J. Potential limits to anthropogenic mortality for harbour porpoises in the Baltic region. *Biol. Conservation*. In Press.