

Life history parameters from the catch of harbour porpoises in West Greenland.

M.P Heide-Jørgensen, N.H.Nielsen, Greenland Institute of Natural Resources, Box 570, DK-3900 Nuuk

C. Lockyer, NAMMCO, Tromsø Science Park, P.O. Box 6453, N-9294 Tromsø, Norway,

This paper summarizes available published information on life history parameters of harbour porpoises from the hunt in West Greenland. The sampling, methods of estimating parameters and comparisons of trends described in Lockyer et al. (2001 and 2003) and in Heide-Jørgensen et al. (2012).

Age distribution:

Teeth were removed for age determination following methods previously described (Lockyer et al. 2003). Growth layer groups in both dentine and cementum were examined by two readers and the average was used.

Years	1988-89		1995		2009	
	Female	Male	Female	Male	Female	Male
0		1	11	8	1	2
0,5			1			
1	4	6	8	5	4	1
2	5	7	8	8	6	4
3	1	4	6	7	7	4
4	4	6	11	4	8	3
5		3	3	1	13	2
6	2	1	2	4	6	5
7	1	7	3	2	5	1
8	2	4				
9	2			3	2	1
10	1	4		3	5	2
11		1				1
12			2	1		
13						1
14		1				
15						
16						
17				2		
0+						
>4					1	
>7					1	
>9						1
>10					1	
>13						1
Total	22	45	55	48	60	29
Average 0+	4,36	5,07	3,67	5,10	4,88	5,32
SD 0+	3,00	3,28	2,54	4,10	2,45	3,22

Mean age at sexual maturity:

Sexual maturity was assessed based on presence of *corpora lutea* and *c. albicantia* in the ovaries for females and based on combined testes weight >200g for males. SE in parenthesis.

	Females 1995 n=55	Females 2009 n=60	Males 1995 n=48	Males 2009 n=29
Mean age at sexual maturity	3.7(0.03)	3.5 (0.03)	2.7(0.03)	3.1 (0.08)

References.

Heide-Jørgensen, M.P., Iversen, M., N.H. Nielsen, C. Lockyer, H. Stern, M. H. Ribergaard. 2011. Harbour porpoises respond to climate change. **Ecology and Evolution** doi: 10.1002/ece3.51

Lockyer, C., M.P. Heide-Jørgensen, J. Jensen, C.C. Kinze, T. Buus Sørensen. 2001. Age, length and reproductive parameters of harbour porpoises *Phocoena phocoena* (L.) from West Greenland. **ICES 51 Journal of Marine Science** 58: 154-162.

Lockyer, C., M.P. Heide-Jørgensen, J. Jensen, M.J. Walton. 2003. Life history and ecology of harbour porpoises (*Phocoena phocoena*) from West Greenland. **Scientific Publications of the North Atlantic Marine Mammal Commission** 5: 177-194.