

## Additional Material

### Criterion 6

The site certainly holds internationally important numbers of Common Eider (*Somateria molissima*) and Common Scoter (*Melanitta nigra*).

The data compilation for these species is a bit difficult, because the monitoring programme is directed towards the EEC Special Protection Areas, and in this case, this is larger than the Ramsar site. Further, offshore areas are counted by transect surveys, and **numbers** estimated subsequently by spatial modeling. The table below gives numbers counted in the SPA and the Ramsar site and those estimated by the spatial

model for each SPA (2008 only)(data from Petersen et al. 2006b, 2010, Petersen & Nielsen 2011).

For 2004 the spatial model for the Denmark as a whole suggests numbers counted along transects should be multiplied by 4.3 for Common Eider (*Somateria molissima*) to estimate the total number of individuals, and by 3.4 for Common Scoter (*Melanitta nigra*)(Petersen et al. 2006b).

Protection area	Year	Eider			Common Scoter		
		Counted	Estimated		Counted	Estimated	
Special Protection Area No. 10	2008	4215	19812		16978	78733	
Ramsar Site No. 10 part	2008	3612	16978	*	8743	40545	*
Special Protection Area No. 10	2004	9488	40798	#	37466	127384	\$
Ramsar Site No. 10 part	2004	9119	39212	#	27168	92371	\$

Notes: multiplication factor 4.3; \$ multiplication factor 3.4; \* estimate by proportional calculation.

The data above from the only two years (2004 and 2008) with a comprehensive aerial survey of the offshore parts of the whole Ramsar site thus indicate occurrences of:

Common Eider (*Somateria molissima*) 17,000-39,200 birds, i.e. 2.2-5.2 % of the Baltic, Wadden Sea population.

Common Scoter (*Melanitta nigra*) 40,500-92,400 birds, i.e. 2.2-5.8 % of the W Siberian/W & N European/NW African population.

### Ecosystem services

In 2003 Denmark launched the NOVANA programme. This programme forms the basis for future nature and water quality assessments in Denmark, and as such also supports the administration of the Ramsar site networks. NOVANA is an acronym that could be translated to English as NMWANA (New Monitoring programme for WATER quality and NATURE), and aims at fulfilling the Danish obligations with regards to reporting conservation status of species and habitats covered by the EEC Birds and Habitats Directives annexes, as well as water quality and associated target species covered by the National 3<sup>rd</sup> Action Plan for the Aquatic Environment (Vandmiljøplan 3) as well as the EEC Water Framework Directive. The programme is described by Bijl et al. (2007). A first 'pre'-NOVANA assessment of the national conservation status of birds was published in 2003, and translated to English in 2006 (Pihl et al. 2006). National criteria for assessing favourable conservation status for the listed

species and habitats were likewise published in 2003, and translated to English in 2007 (Søgaard et al. 2007), except for marine habitats, published solely in Danish (Dahl et al. 2005a). First assessments of reference conditions and development of Ecological Quality Objectives (EQOs) related to the Water Framework Directive were published in 2005-2006 (Dahl et al. 2005b, Petersen et al. 2006). Water bird monitoring programmes involves complete national mid-winter surveys every third year (e.g. Petersen et al. 2006b), and annual complete counts of selected species groups (e.g. swans, geese, dabbling ducks, rare breeding birds, e.g. Søgaard et al. 2006, 2007). The dabbling duck monitoring programme is built upon the much more comprehensive reserve monitoring programme from 1994-2001 (Clausen et al. 2004). Annual assessments of water quality are also available (latest summary report, Nordemann Jensen et al. 2010).

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