

6.3.36 Sandeel (*Ammodytes* spp.) in Division 3a East, SA 6 (Kattegat)

ICES stock advice

ICES advises that when the precautionary approach is applied, catches in 2016 should be no more than 219 tonnes.

Stock development over time

Only catch statistics are available for sandeel area 6 (SA 6). The available information is inadequate to evaluate stock status or trends. The state of the stock is therefore unknown.

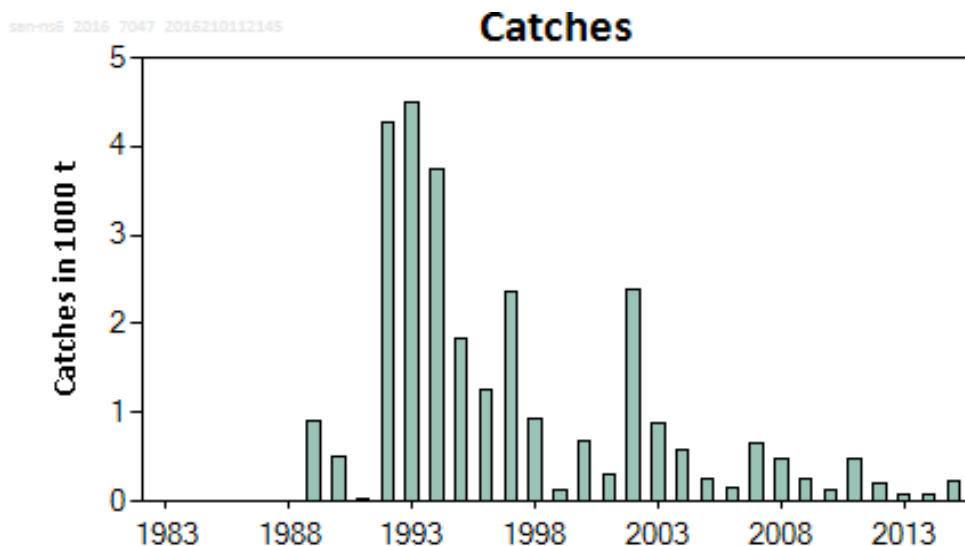


Figure 6.3.36.1 Sandeel in the Kattegat (SA 6). ICES estimates of catch (in thousand tonnes).

Stock and exploitation status

Table 6.3.36.1 Sandeel in the Kattegat (SA 6). State of the stock and fishery, relative to reference points.

		Fishing pressure			Stock size					
		2013	2014	2015	2014	2015	2016			
Maximum sustainable yield	F_{MSY}	?	?	?	Undefined	$MSY_{B_{escapement}}$?	?	?	Undefined
Precautionary approach	F_{pa}, F_{lim}	?	?	?	Undefined	B_{pa}, B_{lim}	?	?	?	Undefined
Management plan	F_{MGT}	-	-	-	Not applicable	SSB_{MGT}	-	-	-	Not applicable
Qualitative evaluation	-	?	?	?	Unknown	-	?	?	?	Unknown

Catch options

For stocks without information on abundance or exploitation ICES considers that a precautionary reduction of catches should be implemented, unless there is ancillary information clearly indicating that the current exploitation is appropriate for the stock (ICES, 2012).

Because the precautionary buffer (20% reduction in catch) was applied in the 2013 advice and the new data (catch statistics) available do not change the perception of the stock, the same catch advice (219 t) is still applicable for 2016.

Table 6.3.36.2 Sandeel in the Kattegat (SA 6). The catch options. For stocks in ICES categories 3–6, one catch option is possible.

Recent advice	219 tonnes	
Discard rate	Negligible	
Precautionary buffer	Not applied	
Catch advice	219 tonnes	

* Recent advice.

Basis of the advice

Table 6.3.36.3 Sandeel in the Kattegat (SA 6). The basis of the advice.

Advice basis	Precautionary approach
Management plan	There is no management plan for sandeel in this area.

Quality of the assessment

The available information is inadequate to evaluate stock status or trends.

Issues relevant for the advice

The advice is expected to remain unchanged for several years unless information on stock status becomes available.

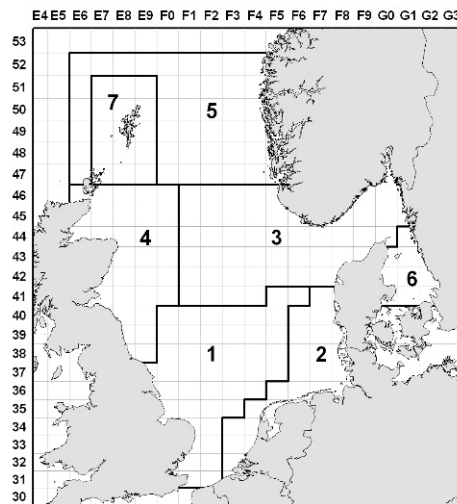


Figure 6.3.36.2 Sandeel in the Kattegat (SA 6). Sandeel are largely sedentary after settlement and form a complex of local (sub-)stocks in the North Sea. To avoid local depletion, ICES advice for sandeel is provided separately for seven areas in Division 3a and Subarea 4. Advice for sandeel in the Kattegat (SA 6) specifically applies to sandeel in rectangles 41–43 G0–G3 and 44 G1.

Reference points

There are no reference points for sandeel in this area.

Basis of the assessment

Table 6.3.36.4 Sandeel in the Kattegat (SA 6). The basis of the assessment.

ICES stock data category	5.2.0 (ICES, 2016a)
Assessment type	No assessment (ICES, 2016b)
Input data	Commercial catches statistics
Discards and bycatch	Discarding is considered to be negligible.
Indicators	None
Other information	Last benchmark in 2010 (ICES, 2010)
Working group	Herring Assessment Working Group (HAWG)

Information from stakeholders

Fishing industry representatives consider that a monitoring TAC large enough to supply sufficient samples for a quantitative stock assessment is needed.

History of advice, catch, and management

Table 6.3.36.5 Sandeel in the Kattegat (SA 6). History of ICES advice, the agreed TAC, and ICES estimates of catch. All weights are in thousand tonnes.

Year	ICES advice	Catch corresponding to advice	EU TAC	ICES catch SA 6
2005*	No advice			0.262
2006*	No advice			0.161
2007*	No advice			0.661
2008*	No advice			0.472
2009*	No advice			0.26
2010*	No advice			0.132
2011	No increase in effort unless there is evidence that this is sustainable.		0.42	0.481
2012	No increase in effort unless there is evidence that this is sustainable.		0.42	0.211
2013	20% reduction in catches from last 3-year average	< 0.219	0.336	0.090
2014	No new advice, same as for 2013	< 0.219	0.219	0.079
2015	Precautionary approach	< 0.219	0.219	0.229**
2016	Precautionary approach	≤ 0.219		

* Advice for Subarea 4, excluding the Shetland area.

** Preliminary.

History of catch and landings

Table 6.3.36.6 Sandeel in the Kattegat (SA 6). Catch distribution by fleet in 2015 as estimated by ICES.

Total catch (2015)	Landings	Discards
229 tonnes	100% industrial trawl fisheries	Negligible
	229 tonnes	

Table 6.3.36.7 Sandeel in the Kattegat (SA 6). History of catch as estimated by ICES.

Year	Catch (tonnes)
1983	0
1984	0
1985	0
1986	0
1987	0
1988	0
1989	909
1990	499
1991	17
1992	4277
1993	4490
1994	3748
1995	1830
1996	1263
1997	2373
1998	936
1999	134
2000	680
2001	312
2002	2378
2003	869
2004	570
2005	262
2006	161
2007	661
2008	472
2009	260
2010	132
2011	481
2012	211
2013	90
2014	79
2015	229

Summary of the assessment

There is no assessment for sandeel in this area.

Sources and references

ICES. 2010. Report of the Benchmark Workshop on Sandeel (WKSAN), 6–10 September 2010, Copenhagen, Denmark. ICES CM 2010/ACOM:57. 201 pp.

ICES. 2012. ICES Implementation of Advice for Data-limited Stocks in 2012 in its 2012 Advice. ICES CM 2012/ACOM 68. 42 pp.

ICES. 2016a. General context of ICES advice. *In* Report of the ICES Advisory Committee, 2016. ICES Advice 2016, Book 1, Section 1.2.

ICES. 2016b. Sandeel in Division 3a and Subarea 4. Available online as Section 11 of the coming Report of the Herring Assessment Working Group for the Area South of 62°N (HAWG), 29 March–7 April 2016, ICES HQ, Denmark. ICES CM 2016/ACOM:07.