

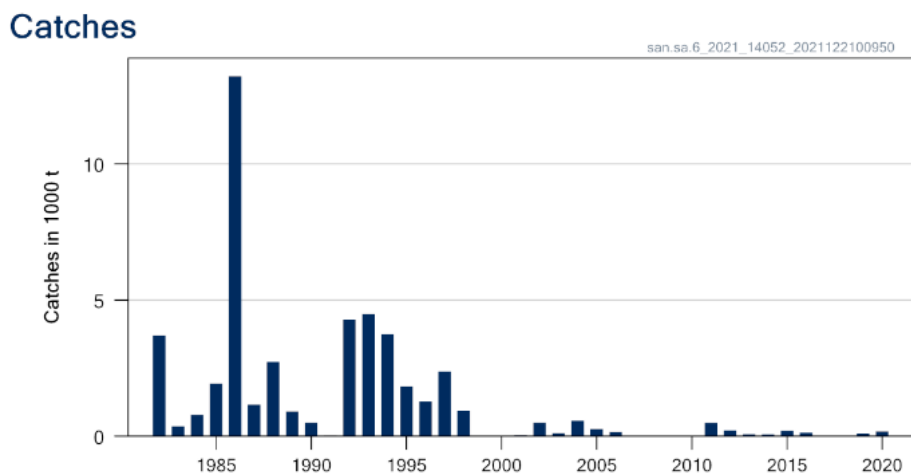
## Sandeel (*Ammodytes* spp.) in subdivisions 20–22, Sandeel Area 6 (Skagerrak, Kattegat and Belt Sea)

### ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, catches should be no more than 140 tonnes in each of the years 2021 and 2022.

### Stock development over time

ICES cannot assess the stock and exploitation status relative to MSY and precautionary approach (PA) reference points because the reference points are undefined.



**Figure 1** Sandeel in subdivisions 20–22, Sandeel Area 6. ICES estimates of catches (in thousands of tonnes).

### Catch scenarios

The ICES framework for stocks in categories 4–6 was applied (ICES, 2012). For stocks without information on abundance or exploitation, ICES considers that a precautionary reduction of catches should be implemented every three years unless there is ancillary information clearly indicating that the current level of exploitation is appropriate for the stock. The precautionary buffer was last applied in 2017 and is therefore applied this year.

**Table 1** Sandeel in subdivisions 20–22, Sandeel Area 6. The catch scenarios. For stocks in ICES categories 3–6, one catch scenario is possible.

Recent advised catch (2019–2020)		175 tonnes
Discard rate		Negligible
Precautionary buffer	Applied	0.8
Catch advice		140 tonnes
% Advice change*		–20%

\* Advice value 2021–2022 relative to advice value 2019–2020.

### Basis of the advice

**Table 2** Sandeel in subdivisions 20–22, Sandeel Area 6. The basis of the advice.

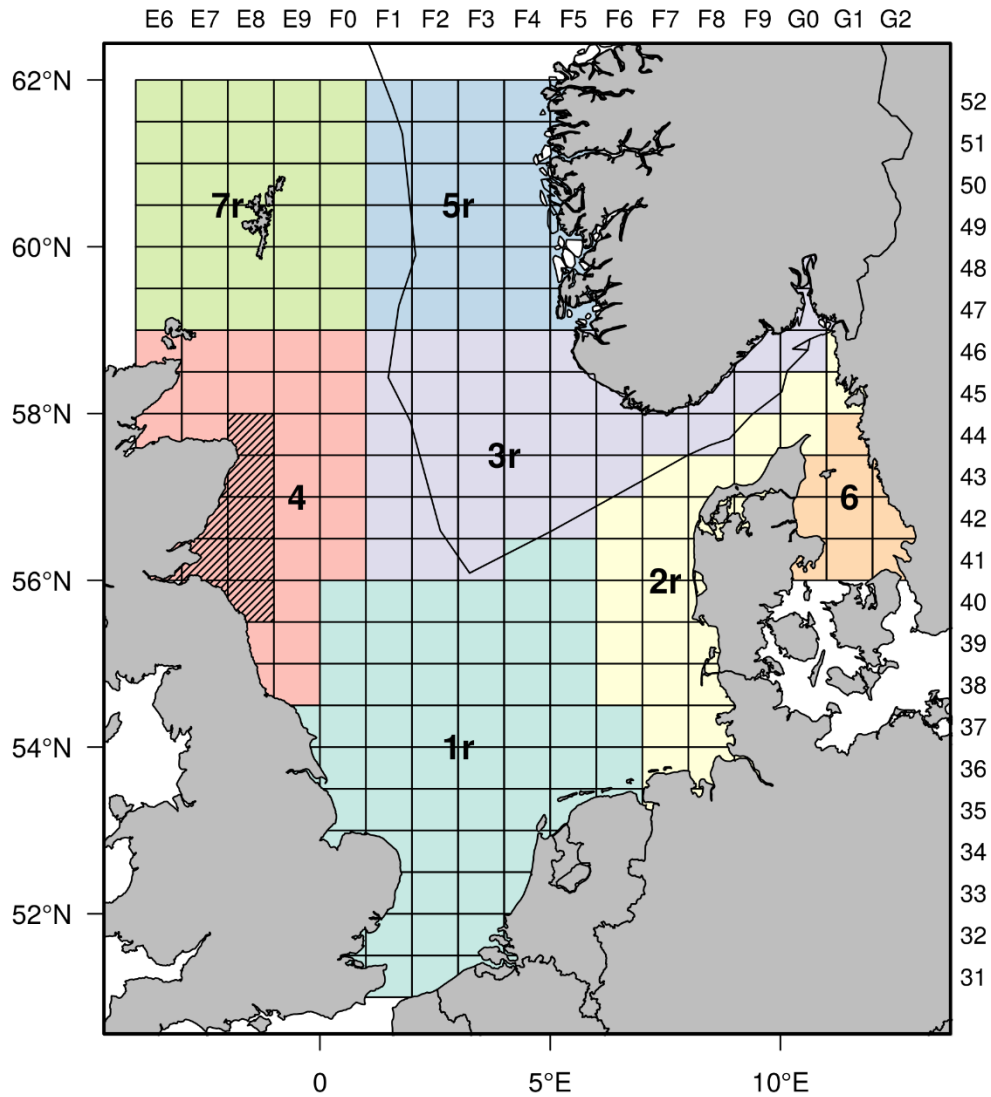
Advice basis	Precautionary approach
Management plan	ICES is not aware of any agreed precautionary management plan for sandeel in this area.

**Quality of the assessment**

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

**Issues relevant for the advice**

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



**Figure 2** Sandeel in subdivisions 20–22, Sandeel Area 6. Stock areas for the seven sandeel stocks. The border of the Norwegian Exclusive Economic Zone (EEZ) is shown as a black line. The closed part of Sandeel Area 4 is shown with hatched markings.

**Reference points**

No reference points are defined for this stock.

### Basis of the assessment

**Table 3** Sandeel in subdivisions 20–22, Sandeel Area 6. The basis of the assessment.

ICES stock data category	5 (see <a href="#">ICES, 2021a</a> )
Assessment type	No assessment (ICES, 2021b).
Input data	Commercial catches statistics.
Discards and bycatch	Discarding is considered to be negligible.
Indicators	None.
Other information	Last benchmarked in 2016 ( <a href="#">ICES, 2017</a> ).
Working group	Herring Assessment Working Group ( <a href="#">HAWG</a> )

### History of advice, catch, and management

**Table 4** Sandeel in subdivisions 20–22, Sandeel Area 6. History of ICES advice, the agreed TAC, and ICES estimated catch. All weights are in tonnes.

Year	ICES advice	Catch corresponding to advice	EU TAC	ICES catch SA 6
2005	No advice			262
2006	No advice			161
2007	No advice			661
2008	No advice			472
2009	No advice			26
2010	No advice			132
2011	No increase in effort unless there is evidence that this is sustainable		42	481
2012	No increase in effort unless there is evidence that this is sustainable		42	211
2013	20% reduction in catches from last three-year average	< 219	336	90
2014	No new advice, same as for 2013	< 219	219	79
2015	Precautionary approach	< 219	219	199
2016	Precautionary approach	< 219	219	123
2017	Precautionary approach	≤ 175	175	0
2018	Precautionary approach	≤ 175	175	0
2019	Precautionary approach	≤ 175	175	96
2020	Precautionary approach	≤ 175	175	177*
2021	Precautionary approach	≤ 140		
2022	Precautionary approach	≤ 140		

\*Preliminary.

### History of catch and landings

**Table 5** Sandeel in subdivisions 20–22, Sandeel Area 6. Catch distribution by fleet in 2020 as estimated by ICES (in tonnes).

Total catch (2020)	Landings	Discards
177	100% industrial trawl fisheries	Negligible
	177	

**Table 6** Sandeel in subdivisions 20–22, Sandeel Area 6. History of catch (in tonnes) as estimated by ICES.

Year	Catch
1983	0
1984	0
1985	0
1986	0
1987	0
1988	0
1989	909
1990	499
1991	17
1992	4277

Year	Catch
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	199
2016	123
2017	0
2018	0
2019	96
2020	177*

\*Preliminary.

## Summary of the assessment

There is no assessment for sandeel in this area.

## Sources and references

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

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ICES. 2021a. Advice on fishing opportunities. *In* Report of the ICES Advisory Committee, 2021. ICES Advice 2021, section 1.1.1. <https://doi.org/10.17895/ices.advice.7720>.

ICES. 2021b. Sandeel in Division 3.a and Subarea 4. *In* Herring Assessment Working Group for the Area South of 62°N (HAWG), Section 9. *In prep.* Section 9 is available separately at the [HAWG website](#).

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