

Thornback ray (Raja clavata) in Division 7.e (western English Channel)

ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, landings should be no more than 170 tonnes in each of the years 2021 and 2022. ICES cannot quantify the corresponding catches.

Note: This advice sheet is abbreviated due to the COVID-19 disruption. The previous advice issued for 2019 and 2020 is attached as Annex 1.

Stock development over time

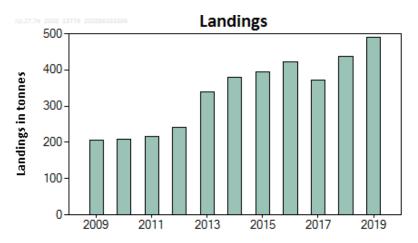


Figure 1 Thornback ray in Division 7.e. ICES estimates of species-specific landings (in tonnes) since 2009.

Stock and exploitation status

 Table 1
 Thornback ray in Division 7.e. State of the stock and the fishery relative to reference points.

| | | | Fishing pressure | | | Stock size | | | | |
|---|------------------|------|------------------|----------------|--|-----------------------------------|------|------|---|----------------|
| | 2017 | 2018 | | 2019 | | | 2017 | 2018 | | 2019 |
| Maximum sustainable yield F _{MS} | y ? | ? | 8 | Unknown | | MSY B _{trigger} | ? | 8 | ? | Unknown |
| Precautionary approach F _{pa} | F _{lim} | ? | 0 | Unknown | | B _{pa} ,B _{lim} | ? | ? | ? | Unknown |
| Management plan F _{MO} | ат — | - | - | Not applicable | | B _{MGT} | - | - | - | Not applicable |
| Qualitative evaluation - | 2 | 2 | 8 | Unknown | | - | ? | 2 | 8 | Unknown |

Catch scenarios

The stock size and fishing pressure status relative to reference points is unknown. The precautionary buffer was last applied in 2016; therefore, the precautionary buffer has been applied again in 2020.

Discarding is known to take place; however, ICES cannot quantify the corresponding dead catch.

| Table 2 | Thornback ray in Division 7.e. The basis for the catch scenarios.* |
|---------|--|
|---------|--|

| Advised landings for 2019–2020 issued in 2018 | | 212 tonnes |
|---|---------|------------|
| Discard rate | | Unknown |
| Precautionary buffer | Applied | 0.8 |
| Landings advice ** | | 170 tonnes |
| % advice change *** | | -20% |

* The figures in the table are rounded. Calculations were done with unrounded inputs and computed values may not match exactly when calculated using the rounded figures in the table.

** [Advised landings (2019, 2020)] × [Precautionary buffer].

*** Advice value for 2021 and 2022 relative to the advice value for 2019 and 2020.

The advised landings has have decreased by 20% due to the application of the precautionary buffer.

History of the advice, catch, and management

| Table 3 | Thornback ray in Division 7.e. History of ICES advi | ce and ICES estimates of landings* | ⁴ . All weights are in tonnes. |
|---------|--|------------------------------------|---|
| Year | ICES advice | Landings corresp. to advice | ICES landings |
| 2011 | Status quo catch | | 216 |
| 2012 | No new advice, same as 2011 | | 242 |
| 2013 | No TAC, species-specific measures needed, catch could increase by max. 20% | - | 339 |
| 2014 | No new advice, same as 2013 | - | 379 |
| 2015 | No increase in landings from the average landings of the last three years | 260 | 395 |
| 2016 | No new advice, same as 2015 | 260 | 423 |
| 2017 | Precautionary approach | ≤ 212 | 372 ** |
| 2018 | Precautionary approach (same value as advised catches for 2017) | ≤ 212 | 438 |
| 2019 | Precautionary approach | ≤ 212 | 490 |
| 2020 | Precautionary approach | ≤ 212 | |
| 2021 | Precautionary approach | ≤ 170 | |
| 2022 | Precautionary approach | ≤ 170 | |

* There is no specific TAC for this stock. Fishing opportunities are managed through an overall TAC by management unit, which includes all species of skates and rays.

** Data revised in 2020.

Summary of the assessment

There is no assessment for this stock in this area.

Sources and references

ICES. 2020. Working Group on Elasmobranch Fishes (WGEF). ICES Scientific Reports, 2:77. http://doi.org/10.17895/ices.pub.7470.

Recommended citation: ICES. 2020. Thornback ray (*Raja clavata*) in Division 7.e (western English Channel). *In* Report of the ICES Advisory Committee, 2020. ICES Advice 2020, rjc.27.7e. <u>https://doi.org/10.17895/ices.advice.5787</u>.

Annex 1 ICES Advice on fishing opportunities, catch, and effort Celtic Seas Ecoregion rjc.27.7e



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ICES advice on fishing opportunities

ICES advises that when the precautionary approach is applied, landings should be no more than 212 to mes and choice of the years 2019 and 2020. ICES cannot quantify the corresponding catches.

Stock development over time

Landings have increased from 2011. No stock size indicator is currently available.

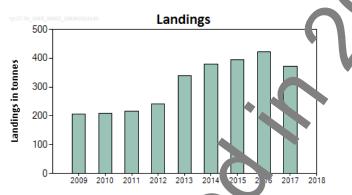


Figure 1 Thornback ray in Division 7.e. ICES estimates of species peepic landings (in tonnes) since 2009.

Stock and exploitation status

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

Table 1 Thornback ray in Division 7.e. State of the tack and fishery relative to reference points.

| | | Fishing projective | | | Stock size | | | | |
|---------------------------|-----------------------------------|--------------------|---|----------------|-----------------------------------|------|------|---|----------------|
| | | 2015 20 5 | | 2017 | | 2015 | 2016 | | 2017 |
| Maximum sustainable yield | F _{MSY} | 9.9 | 4 | Unknown | MSY B _{trigger} | ? | ? | 2 | Undefined |
| Precautionary approach | F _{pa} ,F _{lim} | 2 2 | ? | Unknown | B _{pa} ,B _{lim} | ? | ? | ? | Undefined |
| Management plan | F _{MGT} | | _ | Not applicable | B _{MGT} | _ | - | - | Not applicable |
| Qualitative evaluation | -0 | 00 | ? | Unknown | - | ? | ? | ? | Unknown |
| | | | | | | | | | |

Catch scenarios

The ICES framework for stegory 5 stocks was applied (ICES, 2012). 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. Since the current level of exploitation is appropriate for the stock. The precautionary buffer was applied in 2° 5° and has therefore not been applied again.

Discarding is known o take place, but ICES cannot quantify the corresponding dead catch.

Table 2 Thornback ray in Division 7.e. The basis for the catch scenarios.*

| Advised landings for 2017–2018 issued in 2016 | 212 |
|---|-------------|
| Discard rate | Unknowr |
| Precautionary buffer | Not applied |
| Landings advice** | 212 |
| % Advice change*** | 09 |

* The figures in the table are rounded. Calculations were done with unrounded inputs and computed values may in t mat h exactly when calculated using the rounded figures in the table.

** Recent advised landings.

*** Advice value for 2019 relative to advice value for 2018.

The advised landings for 2019 and 2020 are the same as advised for 2017 and 2018, as there is no stock size indicator and the precautionary buffer has been applied within the last three years.

Basis of the advice

| Table 3 | Thornback | ay in Division 7.e. The basis of the advice. | |
|--------------|-----------|---|--------------------------------------|
| Advice basis | | Precautionary approach. | |
| Managemen | t plan | ICES is not aware of any agreed precautionary managemen | plan for thornback ray in this area. |

Quality of the assessment

The stock structure of thornback ray in Division 7.e is unclear, and it i unclear as to whether it is discrete or associated with the neighboring stocks in Subarea 4 and Division 7.d, or with the stock in divisions 7.a and 7.f–g. Until the stock structure is clarified, ICES provides advice separately for Division 7 c.

The increase in landings in the period 2009 to 2013 is likely to ve succaused by the introduction of mandatory species specific reporting.

Issues relevant for the advice

Thornback ray is one of the most commercially important skate species in this division, and it is taken in trawl and net fisheries.

Earlier trawl survey data in Lyme Bay (the C rhe par survey) indicated that the relative abundance of this species was stable or increasing over the period 1989–20.1 (Burt *et al.*, 2013), although wider parts of Division 7.e were not sampled by this survey. The UK-Q1-SWBeam (2000 present) has shown that thornback ray is locally common in Lyme Bay. These two surveys overlap in space and time Prelim hary analyses of the UK-Q1-SWBeam indicated a greater biomass in 2014–2017 than at the beginning of the time-set. If with 2018 at a similar level to the beginning of the time-series (ICES, 2018). This survey may be able to provide an appropriate stock size indicator in the future.

Reference points

No reference points are defined for this stock.

Basis of the assessme.

| Table 4 Thornbac. | ay in Division 7.e. Basis of the assessment and advice. |
|---------------------------|--|
| ICES stock data cate, ory | 5 (<u>ICES, 2016a</u>). |
| Assessment ty e | No assessment. |
| Input data | ICES estimated landings. |
| Discar sano , ch | Discarding is known to take place but has not been fully quantified. |
| Indicato. | UK-Q1-SWBeam; Carhelmar. |
| Other information | None. |
| Working group | Working Group on Elasmobranch Fishes (WGEF) |

Information from stakeholders

There is no additional available information.

| History of the | e advice, catch, and management | | |
|----------------|--|------------------------------------|--|
| Table 5 | Thornback ray in Division 7.e. History of ICES advice | ce and ICES estimates of landings* | . All weights are in tonries. |
| Year | ICES advice | Landings corresp. to advice | ICES some ies-spectre landings: mining um of timate based on reporteo landings |
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| 2016 | No new advice, same as 2015 | 07 | 423 |
| 2017 | Precautionary approach | ≤ 212 | 371 |
| 2018 | Precautionary approach (same value as advised catches for 2017) | ≤212 | |
| 2019 | Precautionary approach | ≤ 212 | |
| 2020 | Precautionary approach | ≤ 212 | |

* There is no specific TAC for this stock. Fishing opportunities are managed through an Verall TAC by management unit, which includes all species of skates and rays.

History of the catch and landings

The distribution of this stock does not extend into the NEAF regulatory area.

 Table 6
 Thornback ray in Division 7.e. Catch distribution b, fleet in 2017 as estimated by ICES.

| | Discards | | | |
|------------|-------------|-----------------------------------|------------------------------|---|
| beam trawl | bottom traw | nets | other | |
| 13% | 4% | 18% | 5% | Unquantified |
| | 3 /1 toni | nes | | |
| | | beam trawl bottom trawn 13% 4% | beam trawl bottom trawn nets | beam trawlbottom trawlnetsother13%4%18%5% |

 Table 7
 Thornback ray in Division 7.e. httory of landings. ICES estimates of landings by country (in tonnes). Data revised in 2016 (ICES, 2016b, 2018).

| | 2010 (1025) 201 | | | | | | |
|------|-----------------|-------|--------|-----|---------|-------------|----------------|
| Year | Belgium | Spa. | France | UK | Ireland | Netherlands | Total landings |
| 2009 | 2 | | 122 | 82 | | 0.2 | 206 |
| 2010 | 8 | 0.2 | 101 | 98 | | 2 | 208 |
| 2011 | 3 | < 0.1 | 114 | 98 | | 0.5 | 216 |
| 2012 | 4 | | 108 | 129 | | 0.4 | 242 |
| 2013 | | | 181 | 151 | 0.2 | 2 | 339 |
| 2014 | | | 224 | 151 | | | 379 |
| 2015 | 9 | | 225 | 158 | 2 | < 0.1 | 395 |
| 2016 | 14 | | 213 | 195 | | 0.1 | 423 |
| 2017 | 21 | | 176 | 172 | 2 | 0.1 | 371 |
| | | | | | | | |

Summa v of me ssessment

There is no ssessment for this stock 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.

Burt, G. J., Ellis, J. R., Harley, B. F., and Kupschus, S. 2013. The FV Carhelmar beam trawl survey of t e w stern English Channel (1989–2011): History of the survey, data availability and the distribution and relative abure. . ce of fish and commercial shellfish. Science Series Technical Report (CEFAS, Lowestoft), 151. 139 pp.

ICES. 2016a. Advice basis. In Report of the ICES Advisory Committee, 2016. ICES Advice 2016, Book 1, Section 1.2.

ICES. 2016b. Report of the Workshop to compile and refine catch and landings of elasmobranch. (WKSHARK2), 19–22 January 2016, Lisbon, Portugal. ICES CM 2016/ACOM:40. 69 pp.

ICES. 2018. Report of the Working Group on Elasmobranch Fishes (WGEF), 19–28 June 20. 3, Lisbon, Portugal. ICES CM 2018/ACOM:16.

ICES Advice 2018