

Status Assessment 2022 - European eel

The status of European eel is still very poor in all OSPAR Regions where the species occurs, as glass eel recruitment, although stable since 2010, remains at a very low level with no clear sign of an upturn. Eel is a panmictic species which affects its management. While the pressure of commercial fishing on the stock appears to be decreasing in the current assessment period (2010 to 2021), other pressures (dams, turbines, habitat loss, pollution, poaching, diseases and pathogens, climate change, etc.) still pose a significant threat to the species. The European eel remains Critically Endangered in latest (2020) IUCN Red List assessment.



(/en/ospar-assessments/quality-status-reports/qsr-2023/)

Assessment of status		Distribution	Population/abundance	Condition	Previous OSPAR status assessment	Status (overall assessment)
Region	I	↔ ^{2,5}	↔ ^{1,3,5}	? ⁵	•	Poor
	II	↔ ^{2,5}	↔ ^{1,3,5}	? ⁵	•	Poor
	III	↔ ^{2,5}	↔ ^{1,3,5}	? ⁵	•	Poor
	IV	↔ ¹	↔ ^{1,3,5}	? ⁵	•	Poor
	V					N/A

Table Legend

Method of Assessment

Assessment of key pressures		Barrier to species movement (Obstacles blocking access to upstream and downstream migrations)	Extraction of, or mortality/injury to, wild species (Water intake from hydropower turbines and pumping stations)	Input of other substances (synthetic/non-synthetic) (Effect on contaminants on reproductive potential)	Removal of target species (Legal fishing)	Removal of target species (Illegal Unreported Fishing (poaching) and Illegal trade)	Removal of non-target species (By-catch mortality)	Freshwater Habitat loss	Input or spread of non-indigenous species (Parasitic infection by nematode <i>Anguillicola crassus</i>)	Input or spread of non-indigenous species (non-indigenous predators); Loss of / change to natural biological communities (predation by natural predators)	Clim char
Region	I	↔ ⁵	↔ ⁵	? ⁵	↓ ³	N/A	↔ ⁵	↔ ⁵	↔ ^{1,5}	↑ ⁵	↑ ¹
	II	↓ ^{1,5}	↑ ⁵	? ⁵	↓ ³	? ⁵	? ⁵	↓ ⁵	↔ ^{1,5}	↑ ⁵	↑ ¹
	III	↓ ^{1,5}	↑ ⁵	? ⁵	↓ ³	? ⁵	? ⁵	↓ ⁵	↔ ^{1,5}	↑ ⁵	↑ ¹
	IV	↔ ⁵	↑ ⁵	? ⁵	↓ ³	? ⁵	? ⁵	↔ ⁵	↔ ^{1,5}	↑ ⁵	↑ ¹
	V										

Confidence

High confidence in the status assessment of Population/abundance because of the quantitative data used, medium for the distribution and condition status.

High confidence in the assessment of legal fishery mortality threat because of the quantitative data used. Low confidence for others threats as quantitative data are lacking and the understanding of how these threats, individually or synergistically, contribute to **decline** in abundance is still poor.

Background Information

Year added to OSPAR List: 2008 (OSPAR Agreement 2008-6). The original evaluation of European eel against the Texel-Faial criteria referred to global/regional importance, sensitivity and decline criteria, with information also provided on threats.

(https://www.ospar.org/site/assets/files/1888/european_eel.pdf (https://www.ospar.org/site/assets/files/1888/european_eel.pdf))

Summary extracted from the Case report (OSPAR, 2010).

- **Global importance:** As a conservative estimate, at least 80% (possibly 100%) of the larvae of European eel pass through the OSPAR Maritime Area, and at least 50% of the adult eels live in continental waters flowing into the area. Therefore, OSPAR Maritime Area is of global importance for *Anguilla anguilla* (OSPAR 2008).
- **Regional importance:** The European eel (*Anguilla anguilla*) is widely distributed in marine, coastal, brackish and freshwater habitats of Europe and occurs from the Atlantic coast of north Africa, in all of Europe (including Baltic Sea) and in the Mediterranean waters of Europe and northern Africa. In addition, the European eel also occurs in the Canary Islands, Madeira and the Azores Islands, and in Iceland. In Iceland, the eel situation is unique because it also harbours American eels (*Anguilla rostrata*) and natural hybrids of the two eel species (Albert *et al.*, 2006; Avise *et al.*, 1990). Unfortunately, there are insufficient data available to assess eel status in this particular area.
- **Sensitivity:** The European eel *Anguilla anguilla* has an unusual life history, making its sensitivity difficult to assess. Eels are long-lived and spawn only once in their lifetime (OSPAR, 2008). An analysis of the stock dynamics under different management regimes indicates that the recovery time for eel could be expected within 80 years or reducing fisheries to zero, whereas under an ultimately sustainable fishing regime of just 10% of the current rate of fishing mortality, recovery may take more than 200 years (Astrom & Dekker, 2007). There are however other models (Knights and Bonhommeau (unpublished data and analyses), in ICES (2009a) predict that a recovery of recruitment patterns to "normal" levels is possible within ten years under favourable climatic conditions. Other (non-natural) causes of mortality (including e.g., turbines) also need to be taken into account.
- **Decline:** The decline in glass eel recruitment was first noticed in 1985 (EIFAC, 1985). The prolonged decline in landings was mentioned as early as 1975 (ICES, 1976) but has received much less attention than that of recruitment. After a considerable drop in recruitment since the 1980s, glass eel abundance is still at a low level (Bornarel *et al.*, 2018).
- **Anthropogenic pressures and biological factors:** Due to its unusual and complex life history, the reasons for the decline of the European eel are not fully understood. However, there are indications of linkages between the declines of eels and human activities, especially fisheries, construction of dams, weirs or embankments in rivers, chemical pollution, entrainment in water abstractions and loss / degradation of eel habitats.

Last status assessment: 2008. OSPAR (2010) concluded that *Anguilla anguilla* stock is facing an unprecedented level of decline. Anthropogenic factors (e.g. exploitation, habitat loss, contamination and transfer of parasites and diseases) as well as natural processes (e.g. **climate change**, predation) have likely contributed to the decline. It is hoped that 2007 EC Eel Regulation (Anon, 2007) should help address the fisheries threat. However, restrictions on fisheries alone will be insufficient, and management measures aimed at other anthropogenic impacts on habitat quality, quantity and accessibility will also be required. This concern has been corroborated by the current assessment.

Geographical Range and Distribution

The European eel is a panmictic species, with a common spawning area in the Sargasso Sea. Eels undertake long migrations between the spawning areas and growth habitats. The latter extend to fresh, brackish and coastal waters of coastal countries in Europe, North Africa and Asian coasts of the Mediterranean and Black Sea (Adam, 1997; ICES, 2020b; Moriarty & Dekker, 1997). Oceanic migration routes are poorly understood. The northward branch of the Gulf Stream seems to be responsible for transporting most European eel larvae found north of about 40°N towards Europe (Miller *et al.*, 2015). A recent tagging program demonstrated that silver eels in different locations in Europe were capable of long-distance migrations that would converge in the Azores region on a westerly route to the Sargasso Sea (Righton *et al.*, 2016).

In continental waters, only physical obstacles seem to restrain the eel's upstream distribution area. In the northern part (58-71°N) of its distribution range (Foldvik *et al.*, 2019), as well as at the scales of France, Spain and Portugal bioregions analysed in the framework of the INTERREG SUDOANG (<https://sudoang.eu/fr/visuau/> (<https://sudoang.eu/fr/visuau/>) ; **Figure 2**), there is no evidence that eel distribution has changed in recent years independently of potential local accessibility loss or gain.

Under conditions predicted for twenty-first century **climate change**, eel is expected to gain suitable basins mainly northward (around Baltic sea, Scandinavia and Arctic regions) (Lassalle & Rochard, 2009). On the opposite, a further increase in frequency and strength of droughts, induced by **climate change** and other anthropogenic pressures (reduction of flow regime, habitat loss) is likely to strongly impact the species distribution in the Iberian Peninsula (Costa *et al.*, 2021).

Method of assessment: 2 and 5 for Arctic waters, Greater North Sea and Celtic Sea; 1 for Bay of Biscay and Iberian coast (Region IV).

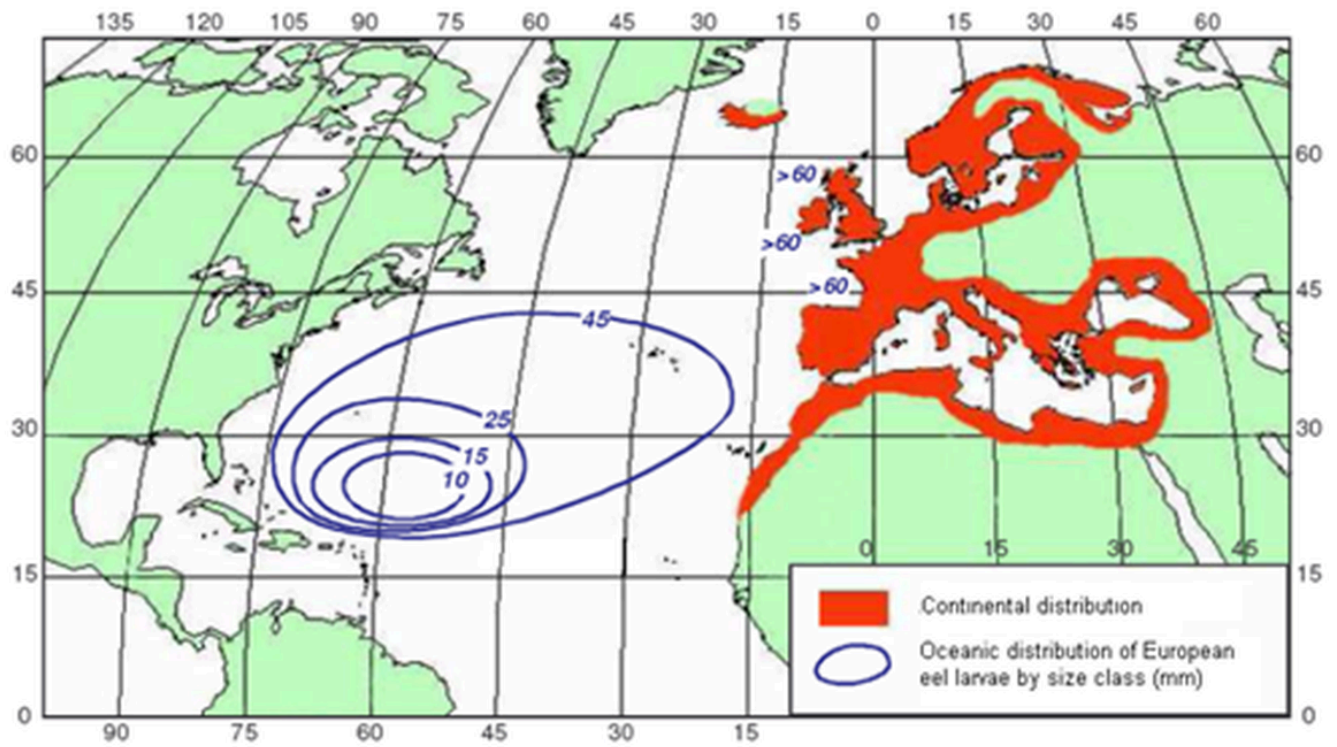


Figure 1: Distribution area for *A. anguilla*, adapted from Adam (1997).

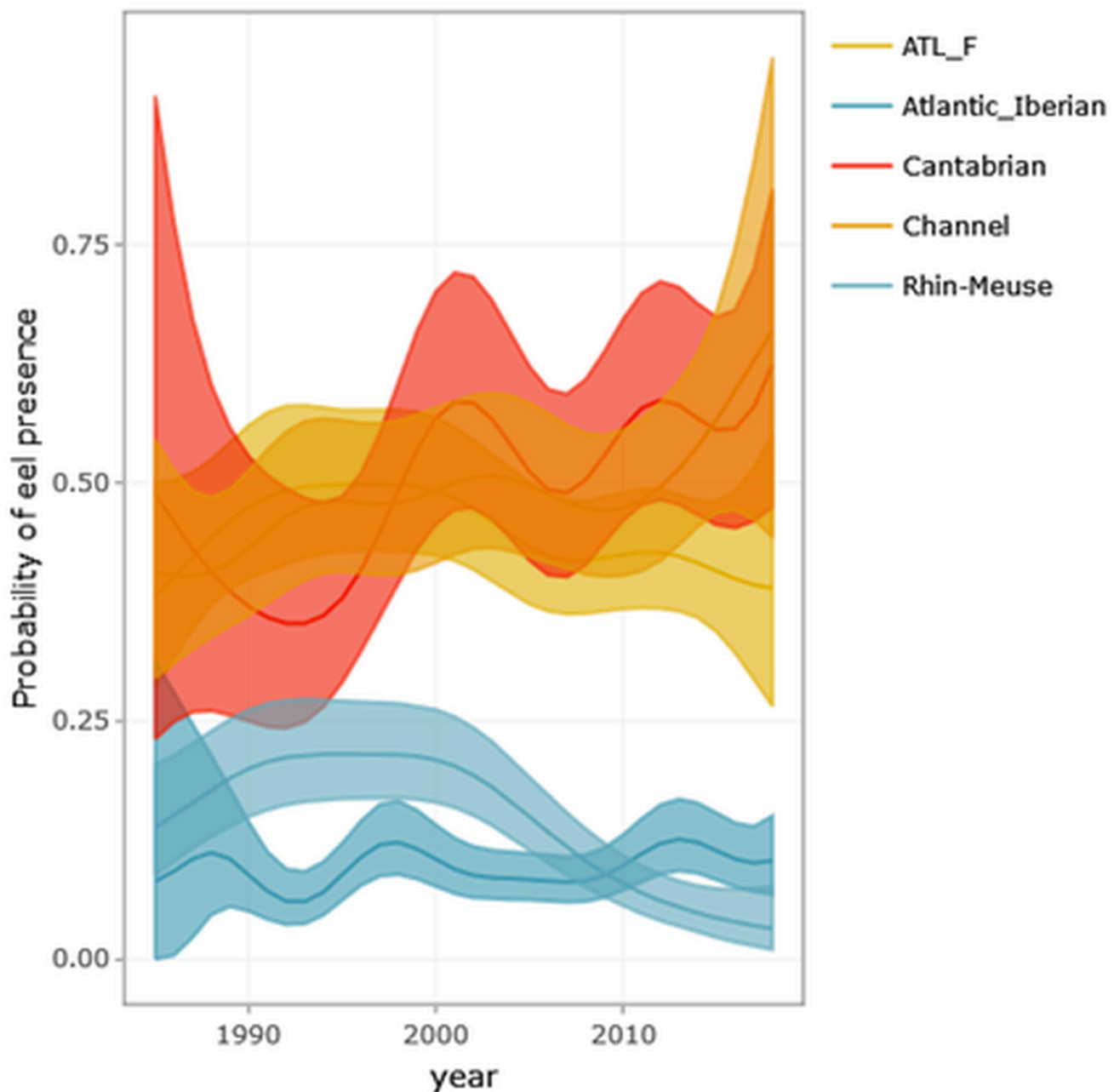


Figure 2: Probability of presence of eel based on 21706 electrofishing data in SUDO area (France, Spain and Portugal). Source: SUDOANG (<https://aztidata.es/visuang/>)

Population/Abundance

Indices of both glass and yellow eel recruitment declined strongly from 1980 to 2011. The latest glass eel recruitment in the “North Sea” index area, compared to that in 1960 to 1979, was 0,5% in 2020 (provisional) and 1,4% in 2019 (final). In the “Elsewhere Europe” index series it was 6.5% in 2020 (provisional) and 5,6% in 2019 (final), based on available data series. For the yellow eel data series, recruitment for 2019 was 17% (final) of the 1960 to 1979 level. Statistical analyses of the time series from 1980 to 2020 showed that glass eel recruitment remains at very low level (ICES, 2020a).

In a recent attempt, ICES WGEEEL analysed short-term trends of silver eel abundances restricted to the period 2000 to 2019, using 17 time-series available in Europe (ICES, 2020b). While the majority of the time-series indicate a stable or declining trend of abundance, increases of abundance of silver eels have been observed in some river basins and no clear spatial pattern in the trends was observed (ICES, 2020b). This contrasted situation is likely to be related to different factors (environmental conditions, anthropogenic pressures, management practices) among river basins.

Method of assessment: 1, 3, 5 – Source: ICES (2020a; 2020b).

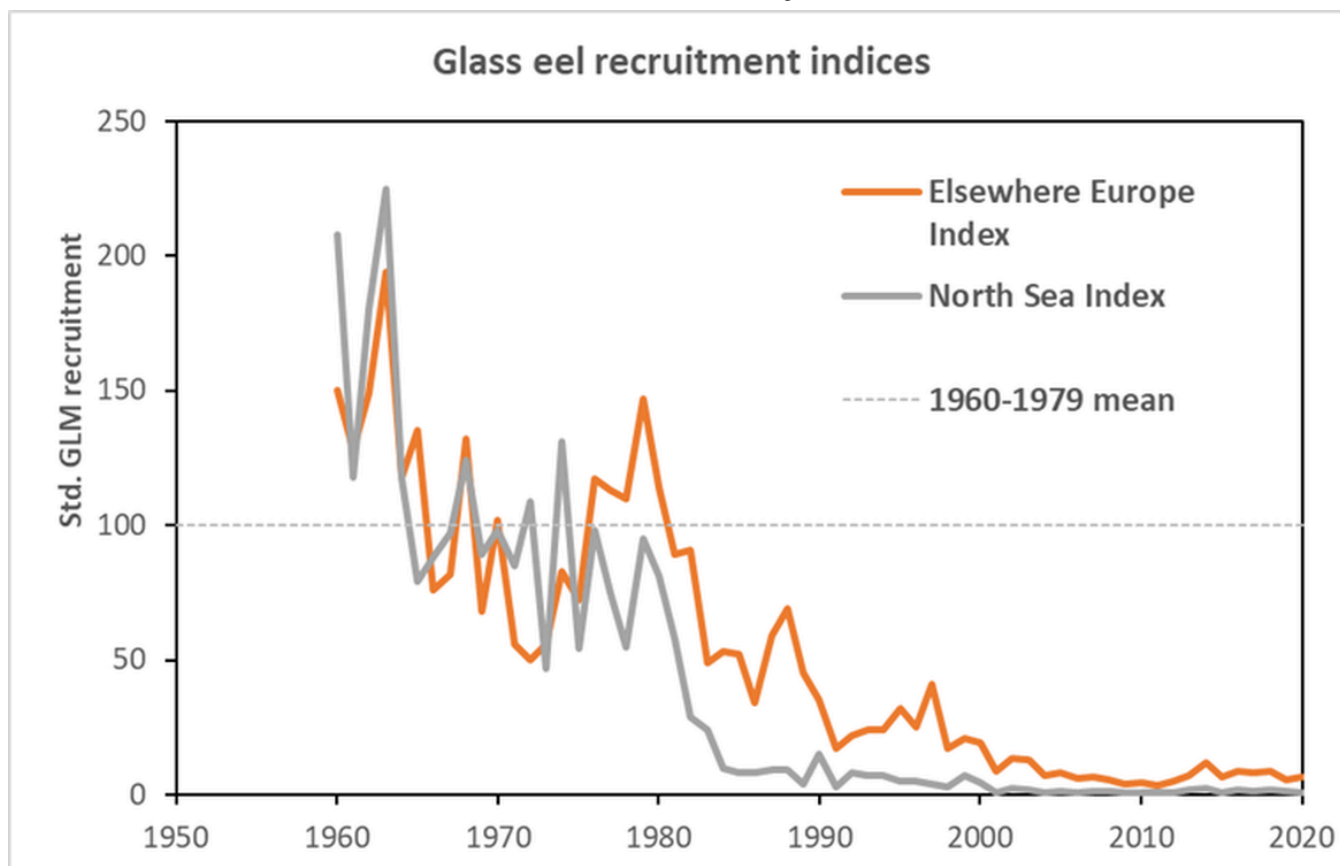


Figure 3: Indices, geometric mean of estimated (generalized linear model; GLM) glass eel recruitment for the continental “North Sea” and “Elsewhere Europe” series. The GLM was fitted to 52 time-series, comprising either pure glass eel or a mixture of glass + yellow eels (24 “North Sea” and 28 “Elsewhere Europe”). The predictions were scaled to the 1960 to 1979 average. Source: ICES (2020a).

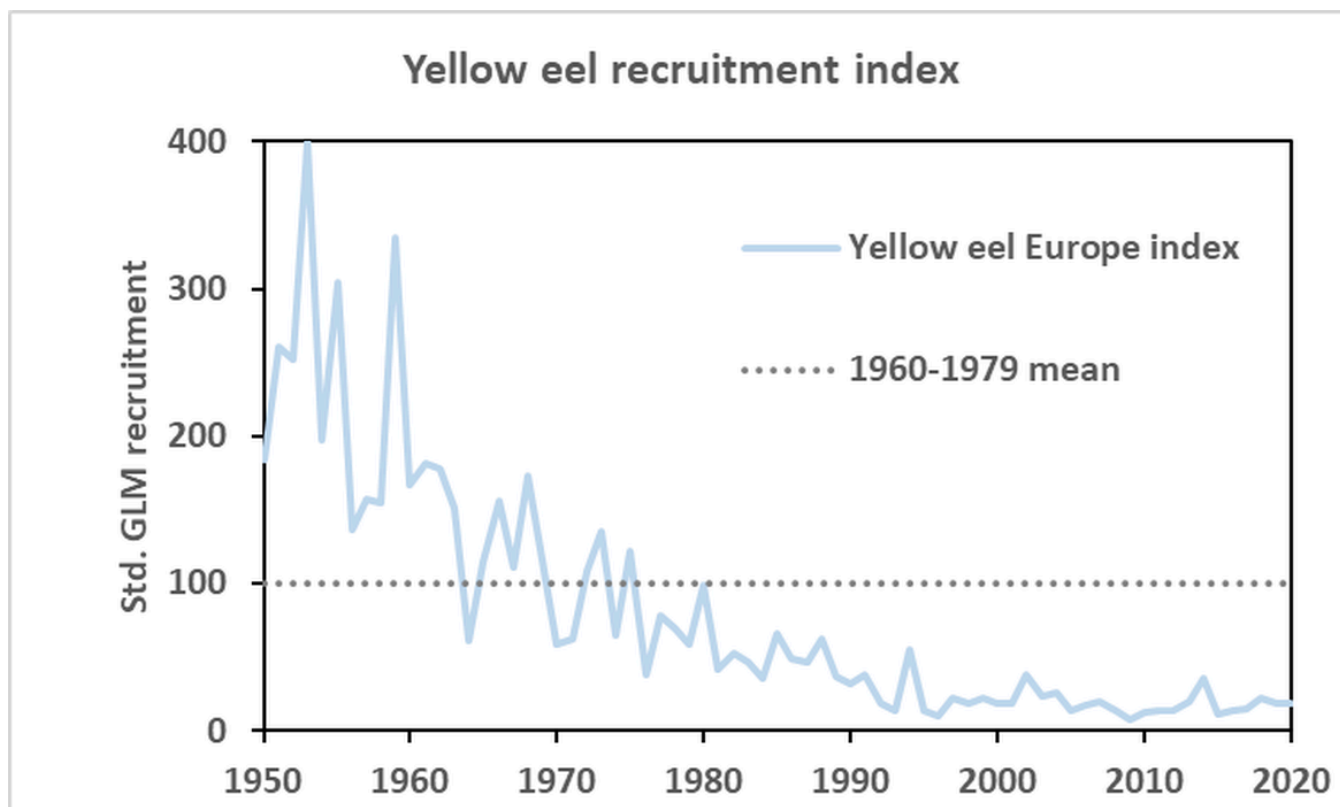


Figure 4: Estimated (GLM) yellow eel recruitment trends for Europe. The GLM was fitted to 16 yellow eel time-series and scaled to the 1960-1979 average. Source: ICES (2020a).

Condition

Since the mature oceanic key stage is not accessible, the ‘quality’ of silver eels leaving continental waters could be used as a proxy for how eels will perform in the future in terms of survival, migratory and reproductive success. Ecological and geographical clines, e.g. latitude and longitude, together with local environmental characteristics such as salinity, catchment size or food resources are known to influence silver eel traits. The generally recognized

hypothesis is that there is (i) a positive and significant relation between age at silvering and latitude, and that (ii) size and thus fecundity increases with latitude (Vélez-Espino & Koops, 2010; Vollestad, 1992). Several laboratory experiments have shown that a fat content representing 12 to 13% of the body mass is required to fuel the trans-Atlantic migration, while a fat content estimated at 20% is thought to be necessary to ensure successful reproduction (Boetius & Boetius, 1980; Palstra & van den Thillart, 2010; Van Den Thillart *et al.*, 2007). However, eels are particularly prone to bioaccumulation of (especially lipophilic) contaminants (Belpaire *et al.*, 2016). Thus, levels of pollutants (PCBs) as well as the occurrence of infection by non-indigenous *Anguillicola crassus* parasite may have a significant effect upon migratory ability of silver eels.

Although variability in silver eel quality between rivers is observed (Bourillon *et al.*, 2020), a reliable assessment of the stock quality is currently not possible, due to insufficient spatial and temporal data coverage (ICES, 2015).

Future prospect – Eel sex differentiation is highly influenced by the environment and particularly by density of congeners (Davey & Jellyman, 2005). Usually, males predominate in crowded areas such as downstream part of the watershed, while females prefer to inhabit the rivers upstream where densities are lowest (Geffroy & Bardonnet, 2015). In the context of eel decline, a lower density but higher proportion of larger females is expected (Davey & Jellyman, 2005; Poole *et al.*, 2018).

Method of assessment: 5

Threats and Impacts

The eel is exposed to a multitude of pressures because of its diadromy and complex life history (Jacoby *et al.*, 2015). For many of these pressures the impacts on the stock are difficult to assess and are largely unknown (ICES, 2020b). Many pressures often interact (e.g., blockage of upstream habitats might increase the density of the eel stock downstream, facilitating predation, fishing or disease transmission), which further complicates their assessment.

Obstacles blocking access to migration – Hundreds of years of modifications to water courses, e.g. dams, water abstraction structures or other barriers are major causes of reduced recruitment and spawner escapement. For instance, river fragmentation by dams is responsible for a 80% loss of historical range of the species in the Iberian Peninsula (Clavero & Hermoso, 2015). Much progress has been made in most Contracting Parties, as measures to improve connectivity are included in both EU Member States Eel Management Plans and river basins policies in the framework of EU Water Framework Directive (WFD). For instance, eel pass must be installed on all obstructions situated on designated 'migratory fish' rivers or on newly constructed barriers. With the increased ecological attention on re-establishing riverine connectivity, dam removal is also becoming an increasing river restoration measure in most Contracting Parties, particularly in the Greater North Sea (Region II) and Celtic Seas (Region III) (UK, Netherlands, Denmark, France, Sweden). However, river fragmentation is not easily reversed as more than 1,2 million instream barriers (with a mean density of 0,74 barriers per kilometer), 68% of which are structures less than two meters in height that are often overlooked, still exist in European rivers (Belletti *et al.*, 2020).

Hydropower turbines and pumping stations – With their elongated morphology and poor burst swimming capabilities, eels are particularly vulnerable at screens and turbines (Brujls & Durif, 2009; Righton *et al.*, 2020). A wide range of technical and management solutions are available to enable mitigation of the impact of hydropower turbines and pumping stations: screening, deflection or diversion through passes, trap-and-transport, spillage of water when eels are migrating and the use of fish friendly designs of turbines and pumps (see ICES, 2019 for review). However, hydropower turbines and pumping stations are still a key sources of eel mortality (ICES, 2018) which is likely to have increased in recent years, stimulated by both recent technological developments and the need to produce renewable energy.

Effect of contaminants on reproductive potential – Since eels are benthic carnivores with a high fat content and long life span, they tend to accumulate higher amounts of persistent chemicals from water, food, and sediment than other species (Belpaire *et al.*, 2016). There is evidence that some "historical" contaminants (PCB, DDT, pesticides, Lindane, etc.) have decreased in some place (Maes *et al.*, 2008). However, the last Water Framework Directive evaluation pointed out that significant effort is required to meet chemical status across European surface waters as only 38% of surface waters are in good chemical status (European Commission, 2020). Moreover, emerging (e.g. toxic textile dyes or PFAS (per- and polyfluoralkyl substances); Belpaire *et al.*, 2015; Teunen *et al.*, 2021) and yet unknown hazardous substances may constitute additional threats for the species. Quantifying to what extent, and at what level, contaminants affect, singly or cumulatively, eel reproductive success is critical (Righton *et al.*, 2020) but empirical data are still lacking.

Legal fishing – Glass eel landings show a sharp decline from 2 000 t in 1980 to around 59 t for the 2014 to 2018 period (ICES, 2020b). Commercial yellow and silver eel landings have declined from around 2 000 to 3 500 t in 2009 to around 2 691 t for the 2014 to 2018 period (ICES, 2020b). Threats from legal fishing appear to be decreasing due to a combination of local closures, reduction in European eel stocks and fishing effort. However, due to the critical status of the eel, the latest ICES Advice from 2021 proposes zero catch in all habitats for commercial and recreational fishing, including catches of glass eel for restocking and aquaculture (ICES, 2021).

Illegal Unreported Fishing and Illegal trade – There is an increasing amount of evidence that illegal, unreported and unregulated (IUU) fishing and illegal trade occur for glass and older eel stages (Crook, 2011; Richards *et al.*, 2020; Shiraishi & Crook, 2015). Unfortunately, there are insufficient data available to quantify their effect on the total stock size or status at any level of certainty (ICES, 2020b) and to assess temporal trends at the scale of OSPAR Regions.

By-catch mortality – Most eels are caught in targeted fisheries in coastal waters, transitional (brackish) and freshwater. However, eels may be captured as by-catch in commercial and recreational fisheries (ICES, 2016). There is limited information on number of eels captured as by-catch, or on their survival when there are regulations requiring the release of eel captured in other fisheries (for instance by recreational angling).

Habitat loss – Aquatic habitat loss has been considerable throughout Europe during the last century, mainly because of wetland reclamation in coastal and estuarine environments but also due to floodplain drainage, dredging, etc. (Feunteun, 2002). In northern Europe where precipitation seems plentiful and river restoration programs are growing successfully (Peters *et al.*, 2021), the threat from habitat loss appears to have decreased. Although now usually subject to more scrutiny from environmental regulators, there is still pressure in southwestern Europe (France, Spain and Portugal) to develop and alter floodplains and water courses for urban, industrial and agriculture development. Loss of habitat is still serious in this area where it is linked with drought and rapid economic development (Kettle *et al.*, 2011). However, quantitative data are needed to fully understand the impact and trend of this pressure on the species (ICES, 2020b).

Anguillicola crassus – The nematode *Anguillicola crassus* has been shown to damage swim bladders and impair the swimming ability of infected eels (Palstra *et al.*, 2007; Sjöberg *et al.*, 2009). This parasite was introduced by human activities into European waters in the early 1980s and spread across the continent within 10 years (Kirk, 2003). Since then, *A. crassus* has become one of the most abundant parasites of the European eel (Gerard *et al.*, 2013; Jakob *et al.*, 2009) occurring in inland waters. Today, 60 to 100% of freshwater eels in eutrophic lakes are infected with *A. crassus* with a relatively stable trend of infection since 2010 (Acou, personal communication).

Natural and non-indigenous predators – In freshwater, several studies have indicated the significance of *A. anguilla* in the diets of various birds (Carpentier *et al.*, 2009; e.g. sawbill ducks *Mergus* spp., grey heron *Ardea cinerea*, great cormorant *Phalacrocorax carbo* or osprey *Pandion Haliaetus*, Carss *et al.*, 1999; Carss & Marquiss, 1997) or mammal predators such as by otters *Lutra lutra* (Carss *et al.*, 1999). At sea, typical eel predators include marine mammals, sharks and large bony fishes (Battaglia *et al.*, 2013; Beguer-Pon *et al.*, 2012; Wahlberg *et al.*, 2014). The recovery of, or increase in, predators

such as the cormorants, seals or otters (Hansson *et al.*, 2018) could increase the natural mortality rate in eel populations. Whilst a natural function of a healthy ecosystem, this may hinder the recovery of depleted species such as the European eel. In addition, the introduction and mismanagement of predators such as Wels catfish (*Silurus glanis*) for angling purpose could be an additional threat for the species in areas where this predator is established (principally OSPAR Region IV). However, the impact of this non-indigenous species on diadromous species including European eel is still unknown (Svåranta *et al.*, 2009).

Climate change – Threats from climate change appear to impact all eel life-stages and all OSPAR Regions. Modifications of oceanic physical conditions appear to be impacting hatching, survival and drift of larvae towards European coasts (Drouineau *et al.*, 2018). In river systems, changing patterns of precipitation and temperature are likely to make extreme events (floods, droughts) more common (Death *et al.*, 2015), which could have serious effects on the quality of habitats and eel survival, especially in areas where other threats co-occur (e.g., drought and water abstraction). Regarding migration phenology, an earlier migration period of silver eel is expected in northern Europe due to increased river discharge in summer (Dankers & Feyen, 2008). Contrarily, drought periods in southern Europe are expected to extend into fall and delay migration (Arevalo *et al.*, 2021).

Measures that address key pressures from human activities or conserve the species

The following list of measures was derived from the Contracting Parties implementation reporting, complemented by national expert additions.

1. National Eel Management plans have been implemented by Belgium, Denmark, Finland, France, Germany, Ireland, Netherlands, Portugal, Sweden and UK.
2. Legislation and measures (installation of fish passages, removals of dams and habitat restoration) have been introduced to restore habitat accessibility and extent of suitable habitats (in particular in estuaries, lowland rivers, floodplains and backwaters) in Belgium, Denmark, France, Ireland, Netherlands, Norway, Sweden and UK.
3. Measures (deflection screens combined with bypass facility, fish-friendly technology, turbine closure during migration peaks, trap and transport) to reduce anthropogenic mortalities from hydropower turbines, pumping stations and other water intakes have been introduced in Belgium, Denmark, France, Ireland, Netherlands, Spain, Sweden and UK.
4. Measures to further reduce emissions of hazardous substances are addressed by national legislation (PCB plan in France) and/or within the framework of EU Water Framework Directive in most Contracting Parties.
5. Measures to increase the traceability of eels (especially for restocking of glass eels) traded from southern to northern Europe have been introduced.
6. Measures to control and restrain illegal fisheries and illegal trade have been introduced by Belgium, Denmark, France, Netherlands, Portugal, Spain, Sweden, and the UK (it might be worth noting that as the UK is no longer a EU Member State, the Northern Ireland Protocol permits Northern Ireland to continue trading with the EU single market whilst trade between UK and the EU is not currently possible without a CITES permit). Fines are handed out and illegal catches, fishing equipment and used vessels can be confiscated. The European eel (*Anguilla anguilla*) has been listed in CITES Appendix II and in the EU implementation of CITES rules (Annex B to Council Regulation (EC) No 338/97; EU, 1996) since 13 March 2009. Since 2010, import and export of eel from the EU has been prohibited.
7. Additional measures reported by experts: There are fishing regulations in Belgium, Denmark, France, Germany, Iceland, Portugal, Sweden and the UK.

Conclusion

Despite the measures taken by Contracting Parties to reduce the impact of fishing, hydropower, obstacles to migration and pollution, or to increase eel abundance through restocking, the status of European eel is still very poor in OSPAR Regions I to IV. Indeed, glass eel recruitment remains at a very low level. The threats include direct exploitation at different stages, blockages to migratory routes by dams and other structures, habitat degradation and loss, pollution, climate change, parasites and diseases.

There is insufficient spatial and temporal data coverage to quantitatively assess abundance of silver eels and their condition. Moreover, quantitative data are needed to fully understand the impacts of the numerous threats on the species. Therefore, it was not possible to assess trends and status within OSPAR Regions with a high level of confidence, except for fisheries exploitation. In line with ICES (2020b), it is of critical importance to better understand the impact of non-fisheries threats on the eel species. It is also important to improve knowledge on the relative importance of inland waters to coastal waters as habitats for eel on the recruitment of eel.

Knowledge gaps

- Concerns about the effects of eel stocking practices (e.g. spread of disease, illegal trade, stocking above dams and hydro barriers) and its effectiveness in contributing to increased silver eel production have been raised. There is evidence that translocated and stocked eel can contribute to yellow and silver eel production in recipient waters (Brämick *et al.*, 2016; Dekker & Beaulaton, 2016; Matondo *et al.*, 2021). However, there is also increasing evidence that some silver eels from the Baltic Sea display unexpected migration patterns (Tambets *et al.*, 2021). Current knowledge about their orientation mechanisms implies that translocated eels will likely have difficulties in finding their spawning area (Durif *et al.*, 2021). Whilst a local benefit may be apparent, an assessment of net benefit to the wider eel stock is unquantifiable and limited by the lack of knowledge on the spawning of any eel.
- Increased data collection and development of data collection infrastructure to better acknowledge the impacts of non-fisheries threats on eel status
- Studies to gain an overview of the prevalence, abundance and condition of the eels over its distribution area and to assess the effects of contaminants and disease factors on lipid metabolism, condition, migration capacities and reproduction;
- Further research on contribution of marine eels to spawning stocks
- Further research on oceanic migration routes;
- Further research on artificial breeding.

Method used

Main source of information:

1. Assessment lead was coordinated by France, namely A. Acou (UMS OFB-CNRS-MNHN PatriNat / Management of Diadromous Fish in their Environment OFB-INRAE-Institut Agro-UPPA, France) and J. Raitif (UMS OFB-CNRS-MNHN PatriNat).
2. Two online meetings (22 June 2021 and 20 September 2021) and emailing were needed with national experts in order complete data gathering, validate the methodology for assessment and review the final draft assessment.
3. Experts involved in the assessment were:

Norway: O. Diserud, C. Durif

Sweden: W. Dekker

United Kingdom: T. Basic, C. Bean, A. Taylor, A. Walker

Belgium : C. Belpaire

France: L. Beaulaton, E. Feunteun, T. Trancart

Portugal : I. Domingos

Assessment is based upon:

- a) Third party assessment (ICES WGEEL principally)
- b) Literature studies
- c) Direct or indirect data
- d) Expert opinion of national experts

References

Sheet reference:

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