

Bycatch: a threat to seabirds in Europe





Seabirds

- One of the most threatened groups of birds
- Europe: >26% threatened; >30% population declines

Bycatch

Non-targeted species caught in fishing gear, hooks and nets = one of the most significant threats

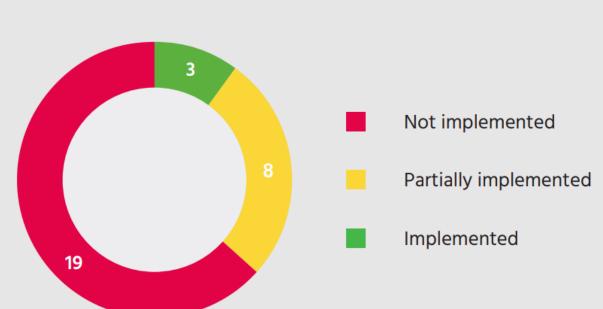




2012 – Publication of the EU Plan of Action to reduce bycatch of seabirds in fishing gears (EU-PoA)

Objective: to **minimise and, where possible, eliminate** the incidental catches of seabirds...by EU vessels operating in EU and non-EU waters, as well as by non-EU vessels operating in EU waters.

- Assessment in 2021 almost **10 years since the EU-PoA** was published showed **very little progress**
- Breach of Member State's obligations under:
 - EU Common Fisheries Policy
 - EU Birds Directive
 - EU Marine Strategy Framework Directive
 - UN Convention on Migratory Species (CMS)





BirdLife 2021 Off the Hook? Reducing seabird bycatch in the EU

https://www.birdlife.org/wp-content/uploads/2021/12/off_the_hook_recducing_seabird_bycatch_in_the_eu_bleca_report.pdf

Progress in implementing the actions contained in the EU-PoA

How is bycatch being addressed by the CFP

- Member States failing to properly monitor and take measures to tackle bycatch.
- Weaknesses in the Article 11 process under the Common Fisheries Policy for establishing Joint Recommendations for fisheries measures.
- Despite evidence of high levels of bycatch in specific areas, MS are not forthcoming with Joint Recommendations with appropriate and adequate measures.
- In many MPAs there is is an absence of management plans and fisheries management measures meaning they offer little, if any, benefits in terms of bycatch reduction.
- The EC has been slow and inefficient in reacting to MS' lack of compliance and hasn't used its powers under the CFP to establish emergency measures.
- Bycatch data is often of poor quality with significant gaps and is insufficient to estimate robust confidence intervals around estimates of bycatch rates.
- Standardised bycatch data collection and monitoring protocols lacking.



EU Progress

Report:

ensitive Species



BirdLife 2022 EU Progress Report: Bycatch of Sensitive Species https://www.birdlife.org/wp-content/uploads/2022/12/BL_EU-ByCatch_Report_DIGITAL-min.pdf



BirdLife recommendations



Strict protection of seabirds in line with EU Birds Directive: ensure proper application of and compliance with existing rules



Use technologies like Remote Electronic Monitoring (REM) to ensure **better data collection** on seabird bycatch and management of fisheries



Urgently mandate **mitigation measures** or any other effective measures, such as spatio-temporal closures



Improve **education and training for fishers** to accurately identify and report seabird bycatch



Invest in **research and development** of practical and effective mitigation measures



First systematic review of seabird bycatch in European waters

Ramirez, I.; <u>Mitchell, D.;</u> Vulcano, A.; Rouxel, Y. et al. (2022)



Ideas that fly.

Introduction

Bycatch

- Europe has a diverse fishing fleet
- Impact of bycatch on birds influenced by fishing practices, species' abundance, biological traits, & feeding behavior
- Good data needed to quantify population-level impacts







Seabird bycatch review

• 1st multi-gear regional assessment

Previous assessments:

- Žydelis et. al. 2009 Baltic & North Sea, gillnets, estimate <u>100,000-200,000</u> birds
- Anderson et. al. 2011 Global, longlines, estimate at least <u>160,000</u> seabirds (Gran Sol: <u>56,000</u> seabirds)

Aims

- a) review all available published and unpublished data on seabird bycatch in Europe (all gears)
- b) compile country level bycatch assessments and compare these with previous estimates (when available)
- c) identify blackspots of seabird bycatch in Europe
- d) highlight data gaps and priorities for action

Ideas that fly.



Approach

- 33 European coastal states; 4 marine regions
- Territorial (including inland) waters and EEZs
- Currently active fisheries
- Used available estimates (and in some cases extrapolated from available data)
- To assess reliability scoring system
- National and sea basin estimates by summing bycatch estimates derived from non-overlapping studies
- Verified data with national experts





Estimate for European waters: <u>192,000</u> birds Upper estimate <u>~375,000</u> birds

France

Poland

Portugal

Iceland

Spain

Sweden

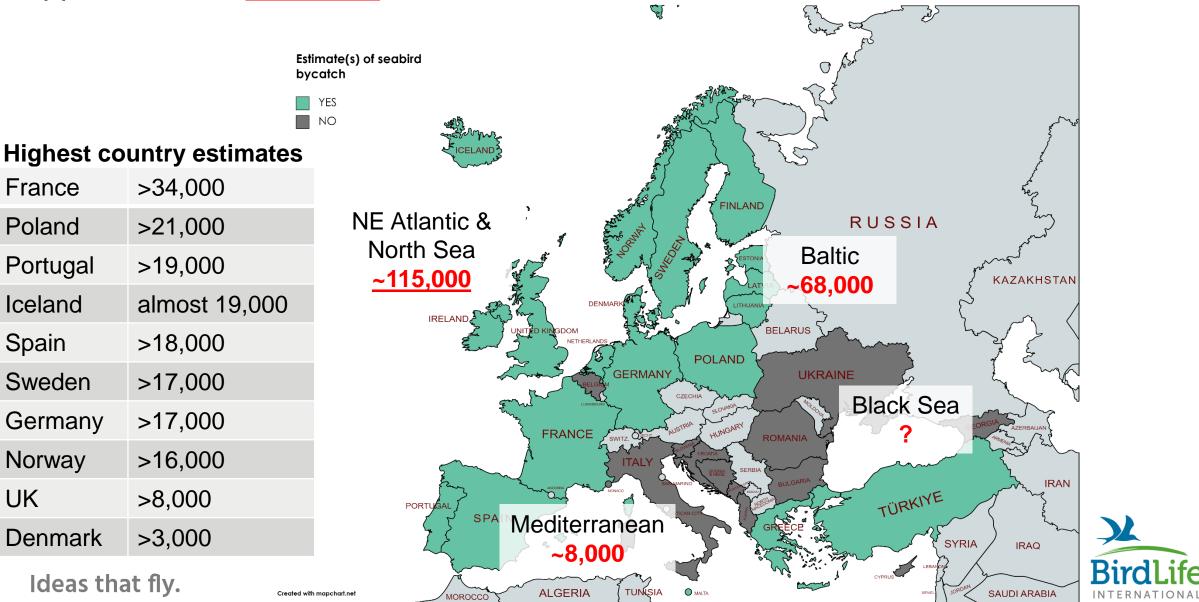
Germany

Norway

Denmark

UK

EU waters: <u>>146,000</u> birds





By gear type	Set nets	104,000
	Longlines	77,000

By family		By species				
Anatidae	>41,000	Long-tailed duck	Clangula hyemalis	LC	~17,000	
		Common eider	Somateria mollissima	EN	>8,000	
		Greater scaup	Aythya marila	LC	>5,000	
		Velvet scoter	Melanitta fusca	VU	~4,000	
Alcidae	>36,000	Common guillemot	Uria aalge	LC	>31,000	
		Black guillemot	Cepphus grylle	LC	>2,000	
Procellaridae	>28,000	Northern fulmar	Fulmarus glacialis	VU	>19,000	
		Scopoli's shearwater	Calonectris diomedea	LC	3,000	
Sulidae	>18,000	Northern gannet	Morus bassanus	LC	>18,000	
Phalacrocoracidae	>14,000	Great Cormorant	Phalacrocorax carbo	LC	~13,000	
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Ideas that fly.

Discussion

- Significant gaps
 - No estimates for 12 (36%) countries
 - Estimates rarely cover a country's entire fishing fleet/waters
- Most estimates not based on non-systematic data collection
- Many estimates are based on less reliable data collection methodologies (self-reporting & questionnaires)
- 192,000 birds/year likely an underestimation
- Figures broadly corroborate previous estimates





NE Atlantic = region with highest estimate

Mainly due to:

- Gillnet fleet in Iceland (lumpsucker & cod)
- Norwegian offshore longline fleet & coastal gillnet fishery
- Portuguese demersal longliners
- Gran Sol demersal longliners (Hake)

Updated estimate for Gran Sol fishery: <u>36,000</u> <u>birds/year</u>, still the fishery with highest bycatch (but caution advised) GRAND SOLE VIb VIa VIIC VIIb VIIK VIIj VIIg Celtic Sea VIIh VIII

Mediterranean region with low bycatch levels BUT estimates for only four countries (Spain, Greece, Turkey & Malta)





Gaps

- More data needed for Gran Sol demersal longliners
- 12 countries with no estimates
- Certain fleets/national sub-areas with no estimates
- More attention on mortality of European breeding species from bycatch outside of European waters
- Recreational fishing

Conclusions

- Lack of standardized data collection
- Lack of systematic and dedicated monitoring programmes for bycatch
- Bycatch data missing for many countries and questions over the reliability of available estimates
- Despite good legislation (at least in EU) implementation is lacking



