

Liberté Égalité Fraternite



Séminaire du plan national d'actions en faveur du Puffin des Baléares

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Balearic shearwater bycatch in the Mediterranean

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SEO/BirdLife - Marine Programme



plan national d'actions en faveur du Puffin des Baléares

Seabird bycatch in the Mediterranean: context

SEABIRDS

- ➤ Small, enclosed sea basin, high human pressure
- ➤ Diversified seabird community, >15 spp breeding
- ➤ 5 endemic sp/ssp., small populations, threatened















- Largely small-scale, artisanal, highly diversified
- ➤ High pressure and low monitoring
- ➤ Seabird bycatch occurring, sparse information





Seabird bycatch in the Mediterranean: Is it really important?







Seabird bycatch in the Mediterranean: occurrence

ВУСАТСН

- >Occurs in multiple gears/métiers, often small-scale vessels
- >Irregular, often "mass mortality" events (10s-100s)
- ➤ Observer programmes constrained (no space onboard; too many vessels)







Balearic shearwater bycatch in the Mediterranean: sources of evidence

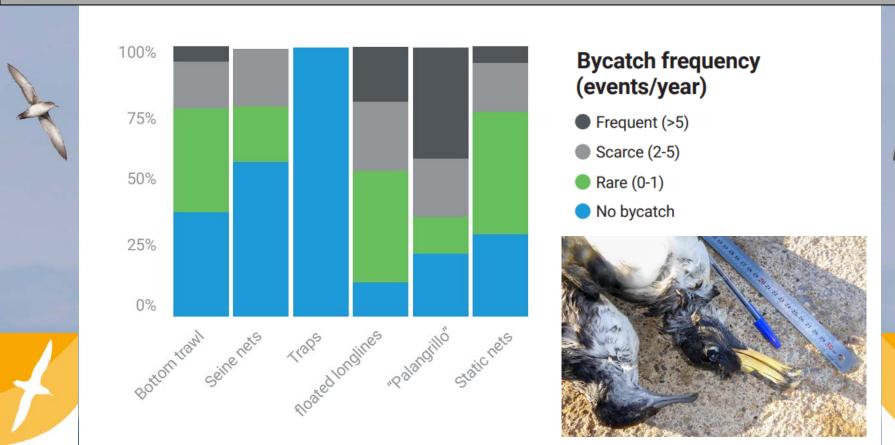


- ➤ Reports from fishermen (occasional events, often 10s of birds simultaneously) sometimes brought to port
- ➤ Questionnaires (overview, but limited information on species)
- ➤ Observers onboard bottom-longlines (SEO/BirdLife, University of Barcelona) irregular but does occur, sometimes multiple events.
- > Observers onboard pelagic-longlines (IEO) rare, but may also have "mass mortality" events
- ➤ Logbooks (SEO/BirdLife)
- ➤ App Bycatch SEO/BirdLife & CEAB-CSIC)
- ➤ Ring recoveries demography

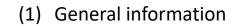




Mediterranean seabird bycatch – overview by type of gear (questionnaires)



Assessing seabird bycatch: self-reporting logbooks

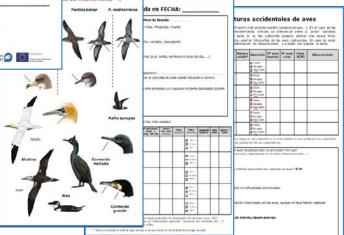


- (2) Fishing gear configuration
- (3) Fishing trips gear used & bycatch

(4) Feedback from fishermen (perception)









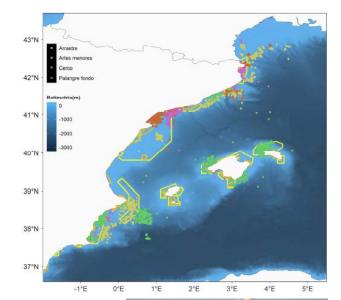


Close follow-up – team on the ground



Logbooks work in the Spanish Mediterranean

- Focus on demersal longline
- ➤ 2017 Pilot project STF 13 vessels
- 2018-2023 Implementation (EMFF funds – Pleamar programme + LIFE PanPuffinus)
- > Coverage (2017-2022)
 - 45 demersal longliners (plus 36 other gears)
 - 4113 fishing trips (demersal longline)













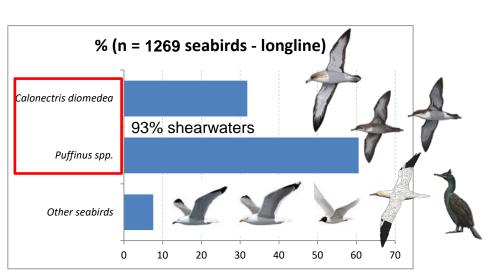




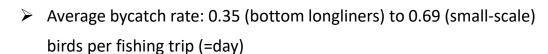




Logbooks: results overview







- Inferred >2000-3000 seabirds bycaught annually (Spanish Med)
- About 60% shearwaters captured <u>alive</u> in small-scale vessels key to capacitate fishermen to handle and release seabirds

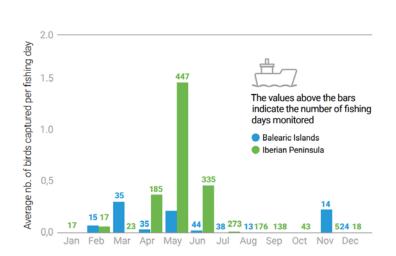




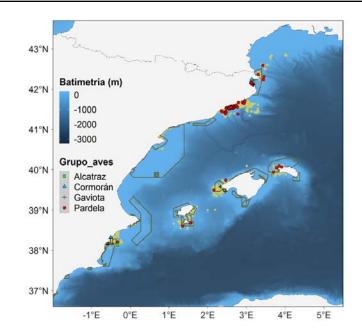


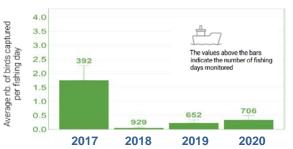
Seabird bycatch: where, when?

> Geographical & seasonal variation



➤ Moreover, interannual variation



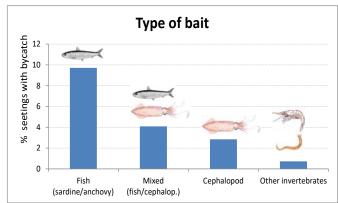




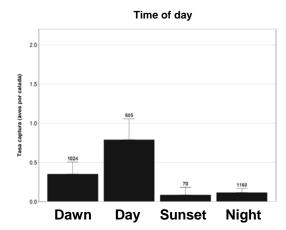


Seabird bycatch: when, how?

- Several factors involved
 - Setting time morning
 - Bait type fish (& squid)
 - Gear configuration light weight











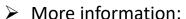


Further work: Exchange experiences + dissemination

BYCATCH

- > Keep fishermen informed of progress
- > Set a ground for (comfortable) discussion
- > Bring positive experiences from other regions
- ➤ New approaches App Bycatch

https://bycatch.seo.org/en_













Current work: GFCM international tender

- Focus on evaluating problem in Balearic Islands (based on review)
- > Promote GFCM recommendation & protocols (GFCM/44/2021/13)
- > Promote building-up relationship, raise awareness & capacity building
- Self-reporting logbooks as main way of access and overview
- > Testing mitigation measures
- Attention to post-release effects on birds captured alive (tagging GPS)











