

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

24 au 26 juin 2024





LIFE PanPuffinus! (2020-2025)

Assessing and mitigating shearwaters/fisheries interactions



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LIFE PanPuffinus (2020-2025)

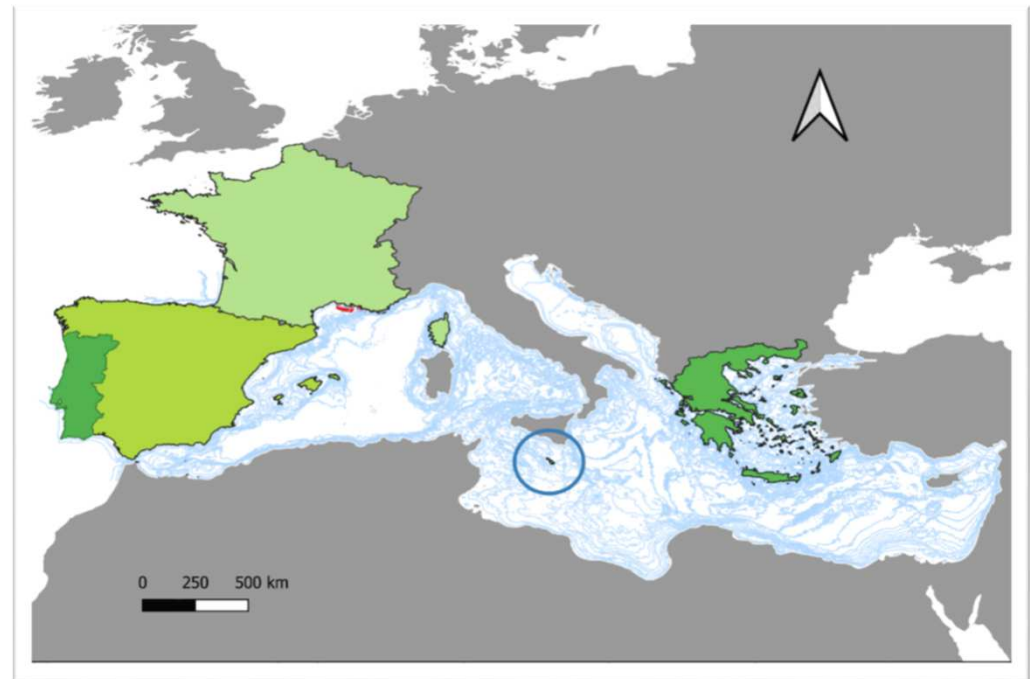


A Mediterranean partnership for Balearic and yelkouan shearwaters conservation

- **Objectives:** Tackle 2 major threats :
 - - invasive mammal species on land
 - - bycatch by fishing gears at sea
- **Budget:** 3,45 M €
- **Partnership:**



GOVERNMENT OF MALTA
MINISTRY FOR AGRICULTURE,
FISHERIES AND ANIMAL RIGHTS

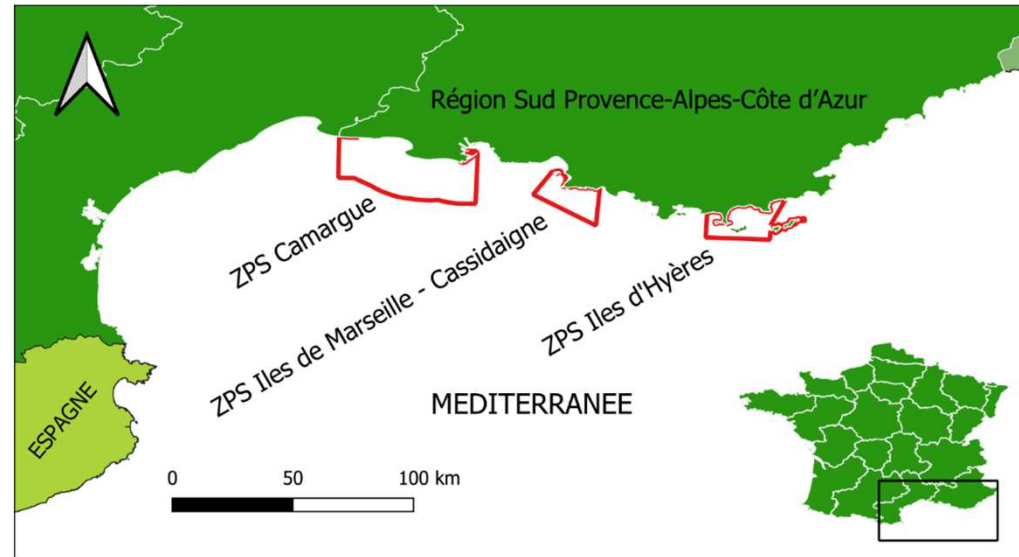


Activities in France (lead)

Objectives :

- Increase knowledge on interactions between seabird small-scale fisheries
- Test solutions to mitigate bycatch and promote good practices
- Enhance collaboration between stakeholders

Partnership in France :



FUNDING



Data collection on small scale fisheries and bycatch

ISSUE : Small scale fisheries (< 12m) not geolocalized + no data on seabird bycatch

Questionnaires

31 fishing harbours visited (35 % of PACA)

84 vessels (18 % of active fishing fleet in PACA)

38 % of fishermen report seabird bycatch, mainly nets and longlines

Low number of shearwater bycatch reported but important bycatch events occur (50 individuals in 1 net in 2020 in Camargue, 10 in Corsica 15 years ago...)

Logbooks

10 logbooks distributed for fishermen self-evaluation

Onboard observations

27 onboard observations (13 vessels)

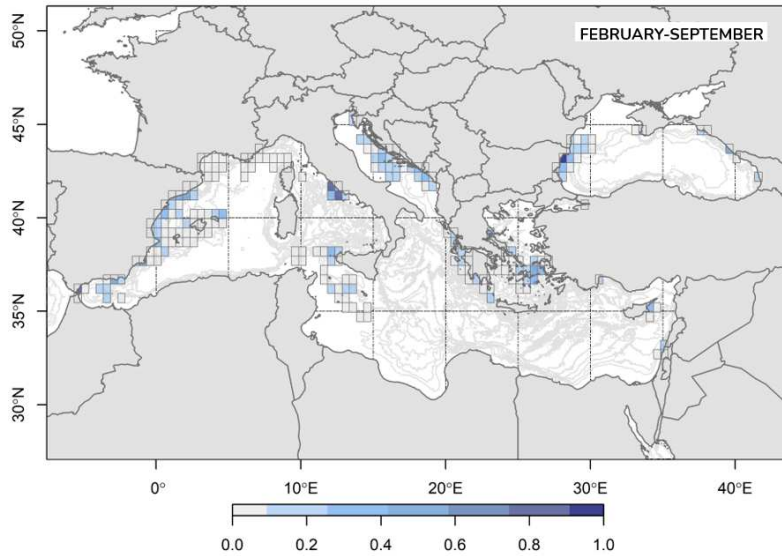
Some interactions observed (Scopoli shearwater) but 0 bycatch



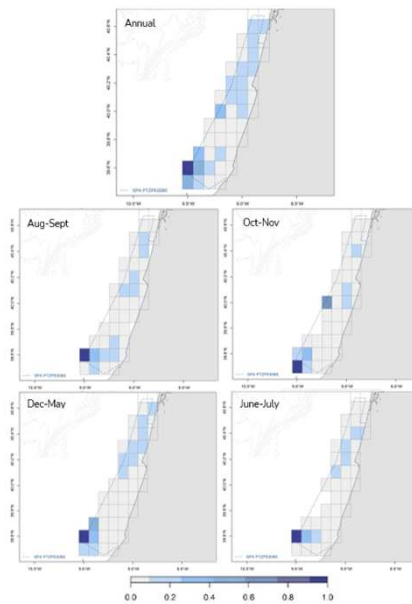
Mapping fisheries activities

3 types of data sources : AIS, VMS, Questionnaires

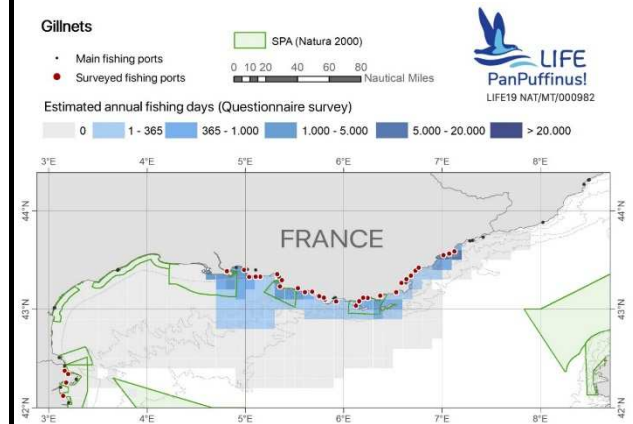
Set gillnets, AIS (GFW) 2018-2022, MED



Set gillnets, VMS (DGRM) 2019-2020, PT



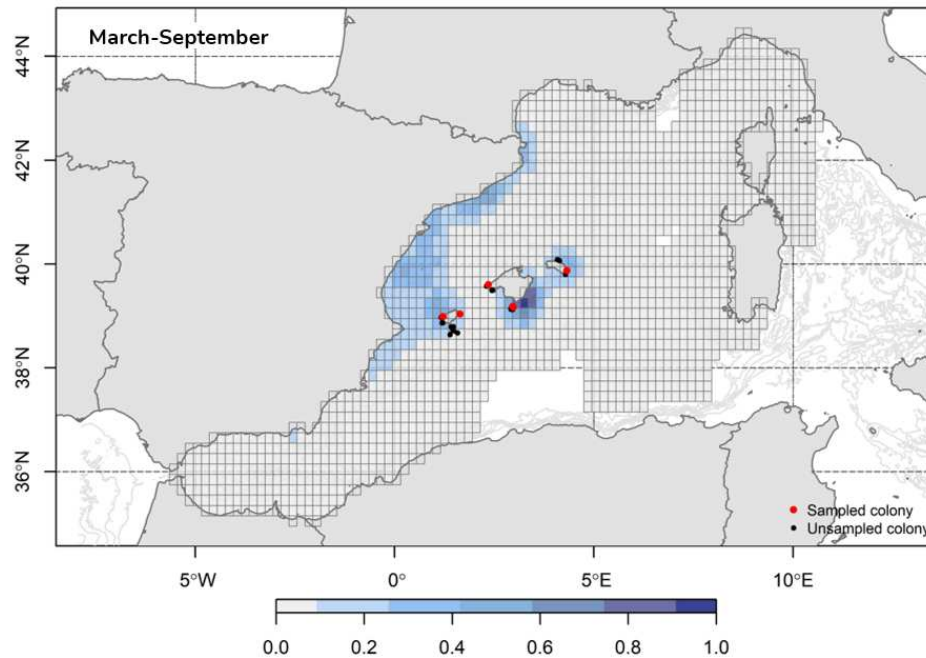
Set gillnets, Questionnaires (LIFE PanPuffinus!), 2021-2022, FR



Mapping seabird distribution

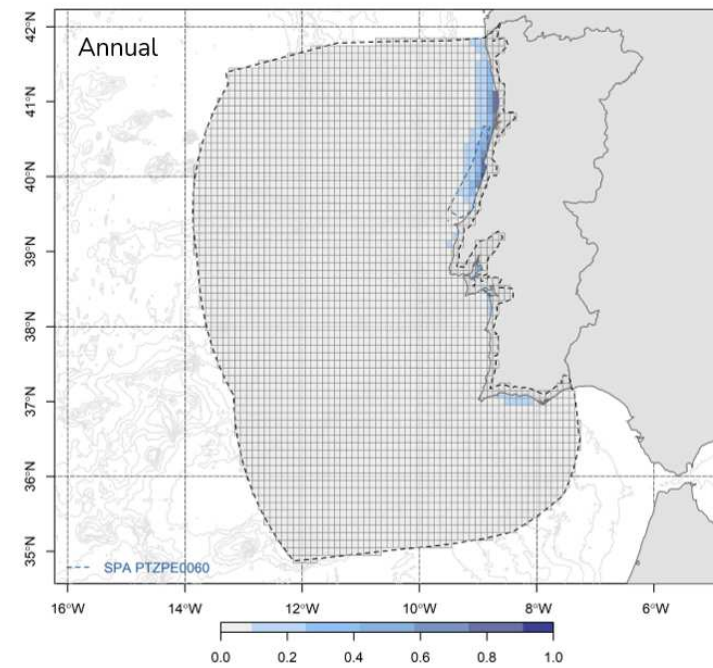
2 types of data sources : Tracks and at sea observations (ESAS)

Balearic shearwater, Tracking data (2012-2021, n = 114 tracks)



BirdLife ISTD & others (Arcos).

Balearic Shearwater, ESAS data (SPEA, 2009-2022)



Identifying overlapping areas : AIS x tracks

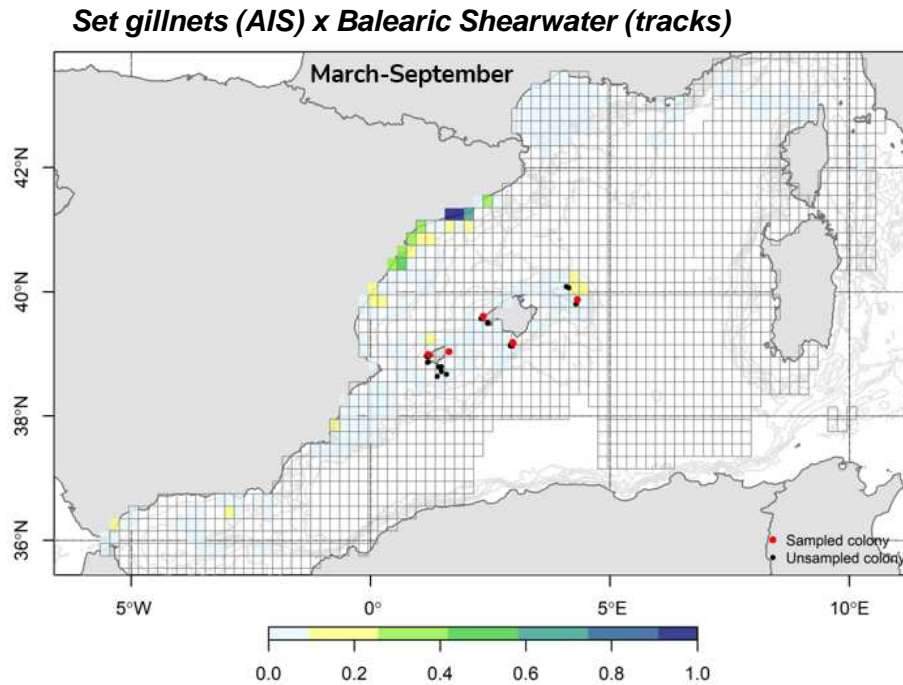


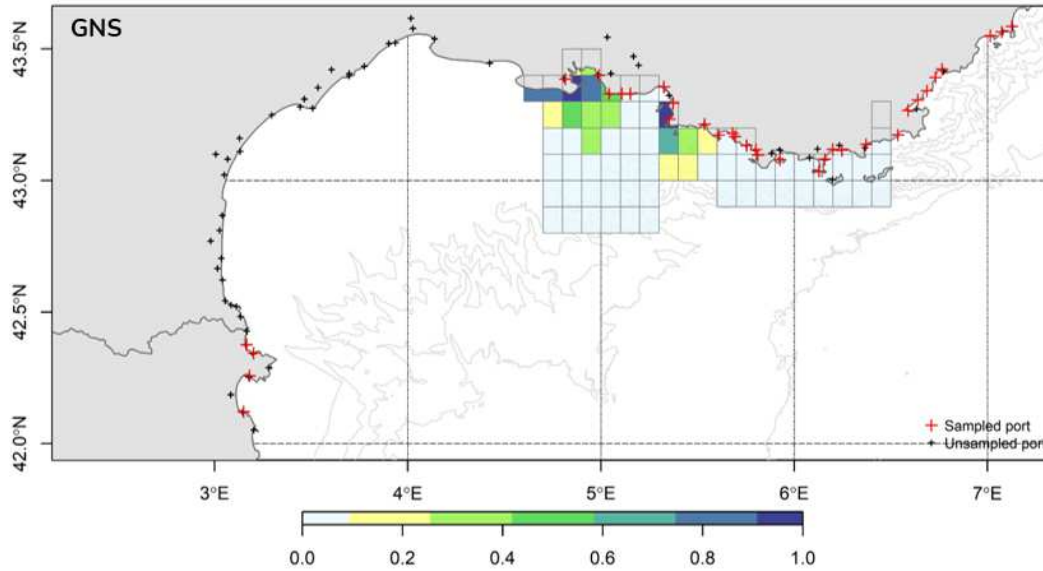
Table 15: March to September sum overlap grid cell 0.2° by fishing gear types and GFCM geographical subareas.

GFCM Subarea Code	GFCM Subarea name	Trawls (TX)	Drifting longlines (LLD)	Set longlines (LLS)	Set gillnets (GNS)	Purse seines (PS)	Hooks and lines (LX)	6 Gear types TOTAL
GSA06	Northern Spain	27.0542	7.7818	3.9037	4.4697	3.4318	2.3701	49.011
GSA05	Balearic Islands	3.6182	12.0715	1.9211	0.4388	0.2739	0.0627	18.386
GSA07	Gulf of Lion	1.7851	0.0000	1.7245	0.1616	0.0224	0.0972	3.791
GSA01	Northern Alboran Sea	0.8291	0.6129	0.1445	0.1823	0.0803	0.0286	1.878
GSA04	Algeria	0.0124	0.0286	0.0136	0.0001	0.0004	0.0000	0.055
GSA03	Southern Alboran Sea	0.0027	0.0100	0.0088	0.0015	0.0004	0.0214	0.045
GSA09	Ligurian and North Tirenian Sea	0.0087	0.0000	0.0076	0.0000	0.0010	0.0000	0.017
GSA112	Sardinia Est	0.0089	0.0015	0.0008	0.0000	0.0002	0.0000	0.011
GSA02	Alboran Island	0.0024	0.0023	0.0033	0.0000	0.0000	0.0000	0.008
GSA111	Sardinia West	0.0018	0.0040	0.0002	0.0000	0.0000	0.0000	0.006
GSA08	Corsica Island	0.0036	0.0000	0.0001	0.0002	0.0001	0.0000	0.004
GSA12	Northern Tunisia	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.000
	TOTAL	33.327	20.513	7.728	5.254	3.811	2.580	73.213

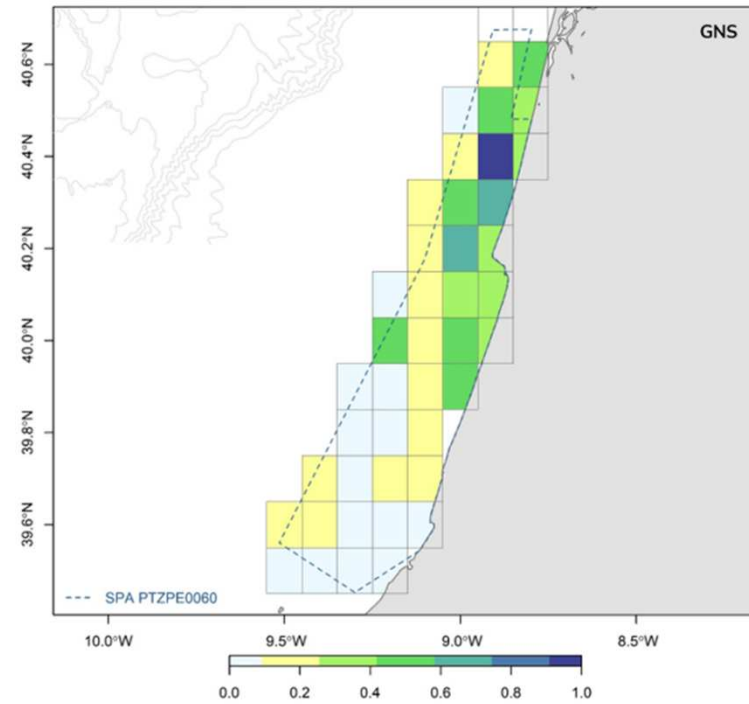
Data source: Fishing activity: GFW all flag states mean 2018-2022. Seabirds: GPS tracking 2012-2021. N=114. Arcos.

Identifying overlapping areas :

FR : Set gillnets (Q?) x Balearic Shearwater (tracks)



PT : Set gillnets (VMS) x Balearic Shearwater (ESAS)



C1 : Fishermen exchanges

- **Sharing challenges, good practices and solutions tested**

- Malta (February 2023) : MT x PT fishermen
- Greece (March 2023) : GR x PT fishermen
- France (March 2023) : FR x SP fishermen



C1 : Testing mitigation measures

- **Device tested : Scarybirds on longlines (2024-2025)**
- **Objective** : 20 boardings on 4 vessels (5 boarding on 3 vessels completed May-June 2024)
- **Protocol** :
 - Seabird presence around the vessel (snapshot every 15 min)
 - Dives counts during setting and hauling (alternatively with and without Scarybird)
 - Complementary data, every vessel testing the device fills in **logbooks** (3 months period) : 1 fishing day with Scarybird, 1 fishing day without



Next steps on shearwaters bycatch

- **LIFE PanPuffinus (LIFE PP, 2020-2025)**



- **Scarybird testing (2024-2025)**

- **Seabird bycatch conference (October 2024)** : bringing together fishermen, conservationists and policy-makers to discuss challenges, good practices and solutions to mitigate seabird bycatch

- **LIFE Mobile Marine Species (LIFE MMS, 2024-2030)**

- **Kick-off (24-26 June 2024)**

- **LPO activities** : continue to quantify seabird bycatch, test solutions to mitigate bycatch for longlines and nets, and large-scale deployment of effective mitigation devices

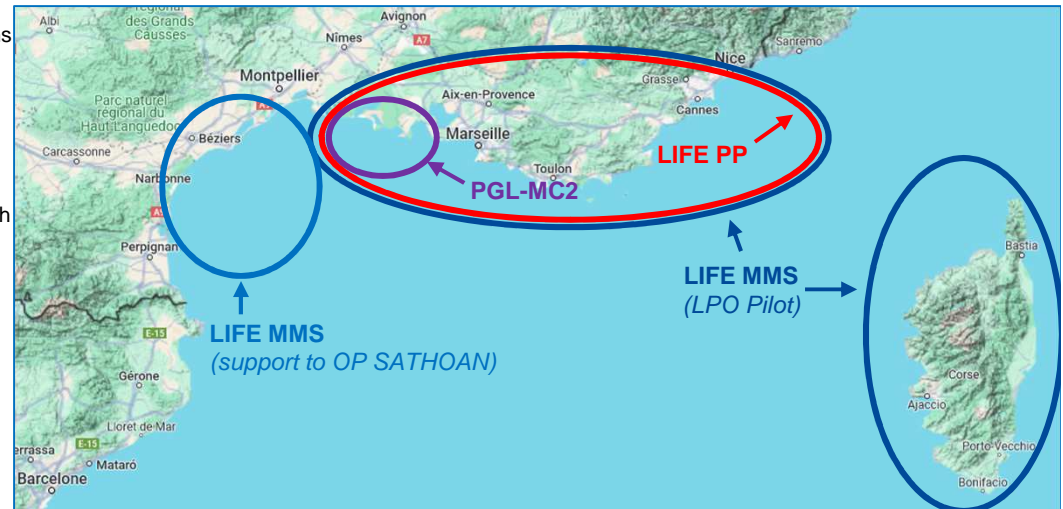
- **Where ?** Mediterranean France : PACA, Corsica + Working with OP SATHOAN in Occitanie

- **Offshore wind farm Provence Grand Large Compensation measure (PGL-MC2) :**

- **Officially launched June 2024**

- **Objectives** : Quantify and reduce shearwater bycatch in nets and longline fisheries

- **Where** : Western PACA (Camargue-Côte Bleue)



Merci !



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