MARINE BIODIVERSITY IN THE WATERS OF THE SOUTHEASTERN IBERIAN PENINSULA: 20 YEARS OF MONITORING



Data Grants Holders Workshop París, 3rd-5th June 2025



Marine Biology Research Technician Team



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WHO ARE WE?







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SPAIN Region of Murcia

- ANSE (Association of Naturalists of the Southeast) is a nonprofit environmental association, founded in 1973 and located in the region of Murcia, Spain.
- The association carries out a variety of projects with many different species and habitats, mainly in the southeast of Spain.



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Our main activities include:

- Public campaigns to defend natural areas
- Projects for the protection of endangered wildlife species
- Reporting observed violations of wildlife protection laws
- Research of habitats, ecosystems and endangered species
- Volunteering and environmental education



















WHO ARE WE?







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ANSE also carries out marine biodiversity studies, especially with cetaceans, but also with seabirds, turtles and marine litter, using two vessels: the *Else* and the *Orca*.





HOW DO WE WORK?

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- Our goal is to provide quality environmental information to public administrations to properly manage threatened species and habitats.
- We collect a variety of marine megafauna data through navigation surveys: cetaceans, turtles, seabirds, sharks and marine litter.
- Our main results include estimating cetacean population parameters and proposing management and mitigation measures for our marine protected areas.







HOW WE COLLECT

MARINE BIODIVERSITY IN THE WATERS OF THE SOUTHEASTERN IBERIAN PENINSULA: **20 YEARS OF MONITORING**

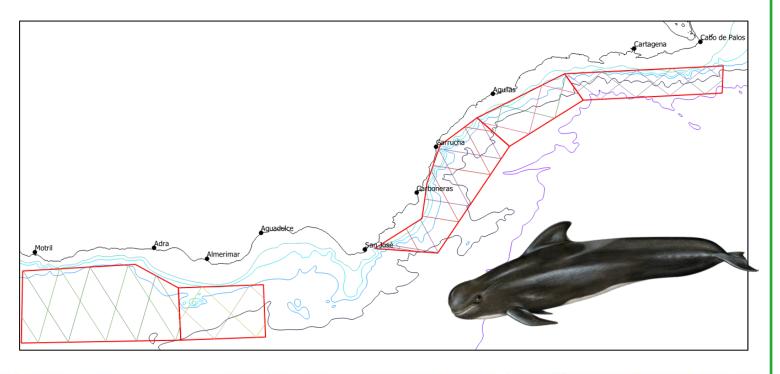




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THIS DATA?

- Species-based sampling design
- Standarized methodology
- Multidisciplinary navigation campaigns













HOW WE COLLECT THIS DATA?

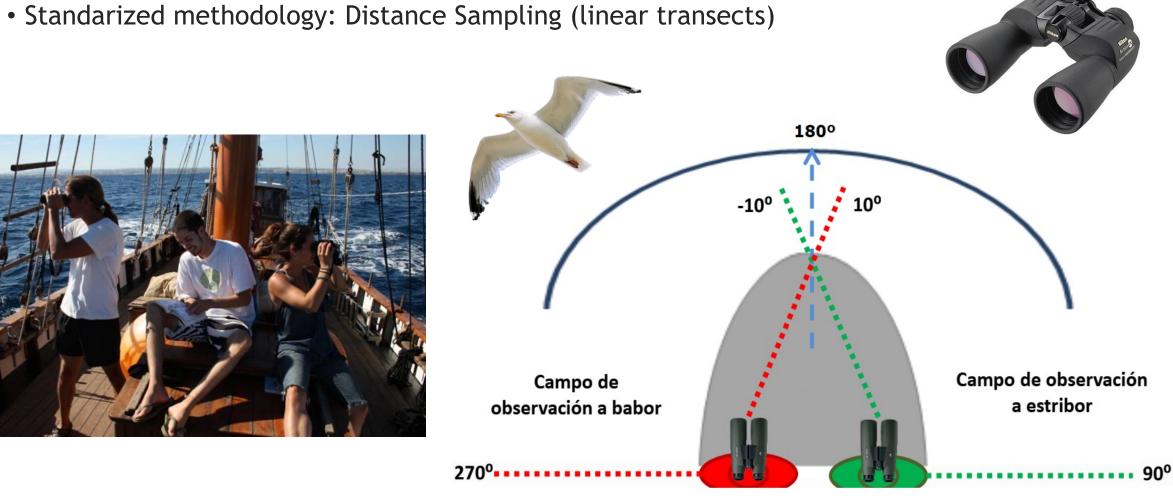
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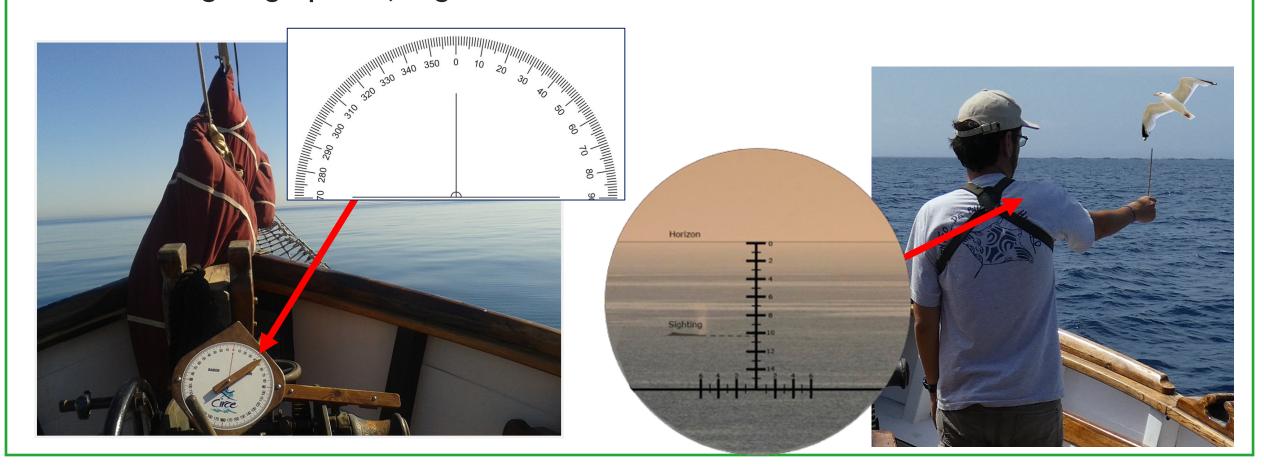






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- THIS DATA?
 - Standarized methodology: Distance Sampling (linear transects).
 - Each sighting: species, angle and distance.



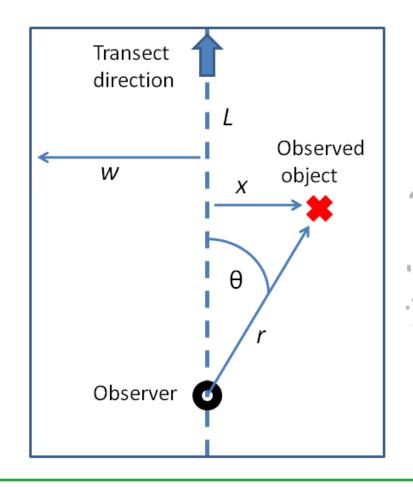


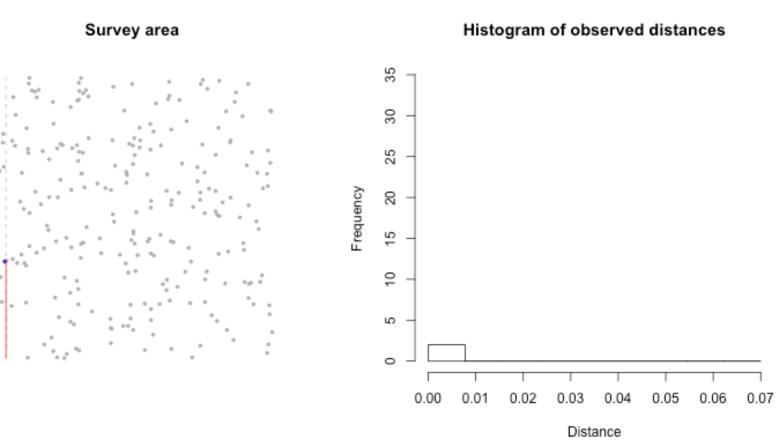


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• Standarized methodology: Distance Sampling (linear transects)





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BIRDS, OTHER SIGHTINGS AND FISHERIES

TRIP NUMBER:_____ DATE:____

HOUR ANGLE DISTANCE HEIGHT TOTAL N° ADULTS INMATURE JUVENILE COURSE TYPE SIZE SIZE COLOR FLOATING? OBSERVE			POSITION			Nº INDIVIDUALS				BOATS	BEHAVIOUR					MARINE LITTER					R	NOTES	
	¥	SPECIE / OTHER	_	DISTANC	HEIGHT	TOTAL N°	ULT	MATUR	¥	۰N	TYPE	eed	v/ feed'	Resting	<u>≘</u> .	Course	TOTAL N°	TYPE	_	COLOR	LOATING	OBSERVE	



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• Standarized methodology: cetacean photo-identification (Mark-recapture)



Pilot whales (Globicephala melas)









Bottlenose dolphins (*Tursiops truncatus*)













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PRESENT PROJECT

- ANSE has been working in the marine environment for over 25 years.
- Large number of marine fauna research projects have been carried out, particularly with cetaceans.
- Thousands of kilometers of navigation in the waters of the southeastern Iberian Peninsula and the Alboran Sea
- A significant portion of the data gathered during these navigations has remained unprocessed or unanalyzed because it did not correspond to the target species or the objectives of the projects
- Large pool of thousands of records of seabirds, sea turtles, and some fish species, from 2006 to 2023, many of which are not even digitized and remain on paper sheets.
- The aim of this project is to mobilize this vast amount of data and make it available to the scientific community and environmental managers at the European level, as well as to develop a future strategy to continue the data flow in case funding is secured to carry out further data collection campaigns at sea.





VALUE OF THIS INFORMATION AND IMPLICATIONS FOR MARINE CONSERVATION

- The southeast Iberian Peninsula is a biodiversity hotspot, being an important feeding, breeding and migration area for cetaceans, seabirds, turtles and other species.
- Seabirds: more than 20 species recorded
- Large presence of loggerhead turtles (*Caretta caretta*). Nesting on our coast in recent years.
- Elasmobranchs: commercial species of which the conservation status is unknown.
- New species detected in recent years, such as the giant devil ray (Mobula mobular).

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- Yellow-legged Gull (*Larus michahellis*)
- Lesser Black-backed Gull (*Larus fuscus*)
- Audouin's Gull (*Ichthyaetus* audouinii)
- Black-headed gull (Chroicocephalus ridibundus)
- Mediterranean Gull (Ichthyaetus melanocephalus)
- Slender-billed Gull (Chroicocephalus genei)
- Little gull (Hydrocoloeus minutus)
- Black-legged kittiwake (Rissa tridactyla)
- Great skua (Stercorarius skua)
- Balearic shearwater (*Puffinus mauretanicus*)

- Cory's shearwater (*Calonectris* borealis)
- European storm-petrel (Hydrobates pelagicus)
- Northern Gannet (*Morus bassanus*)
- Great Cormorant (*Phalacrocorax* carbo)
- European Shag (Gulosus aristotelis)
- Common tern (Sterna hirundo)
- Sandwich Tern (*Thalasseus* sandvicensis)
- Little Tern (Sternula albifrons)
- Black Tern (Chlidonias niger)
- Atlantic puffin (*Fratercula* arctica)
- Razorbill (*Alca torda*)

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- Marine environment has a significant lack of information, which is necessary for proper management.
- **Projects targeting certain species** (e.g. cetaceans) are usually given preference over others.
- Funds are limited, so more time is spent navigating and collecting data, making it difficult to process and analyse.

