

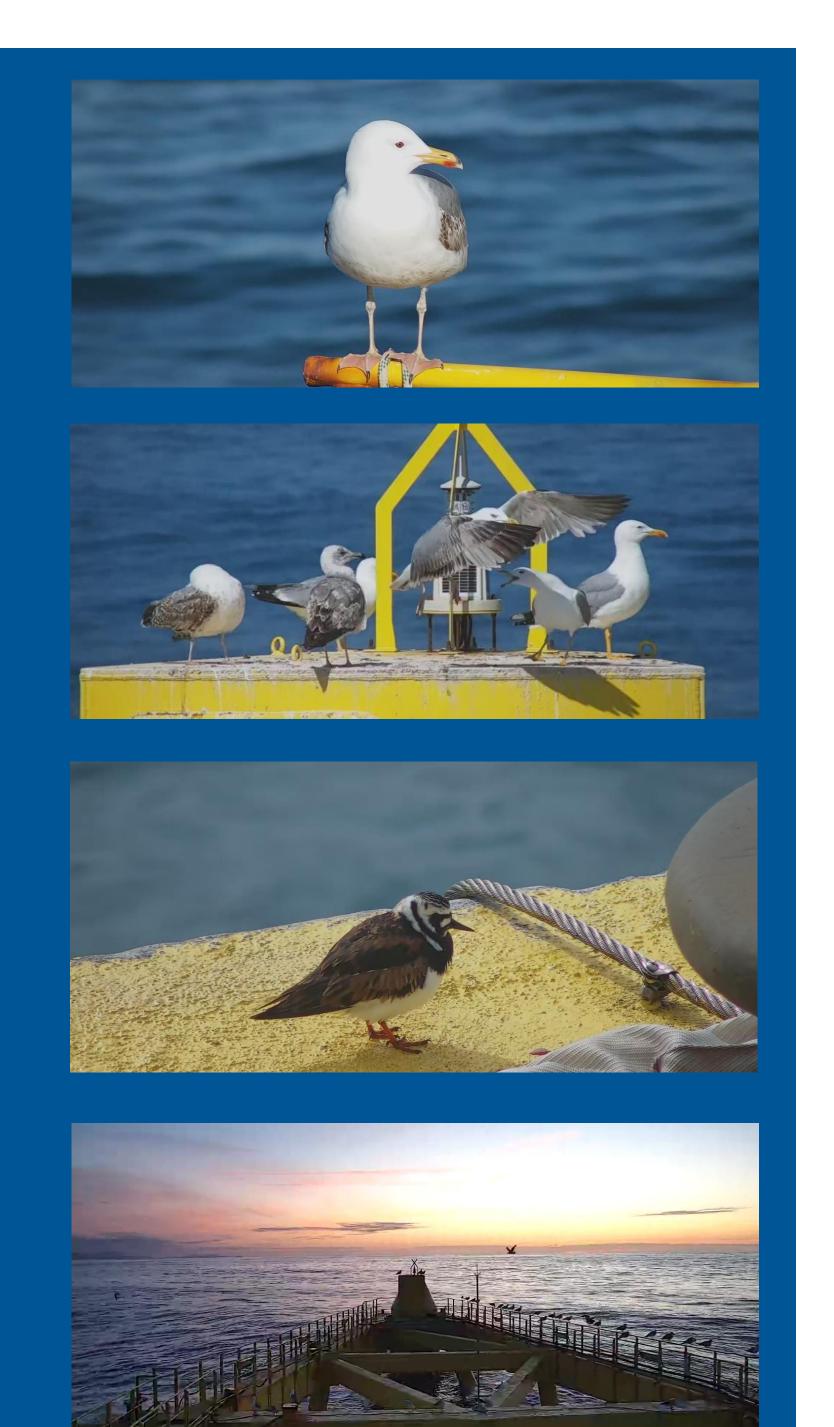


# Bird monitoring in DemoSATH LAB

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Bird monitoring on the DemoSATH platform has revealed a low mortality rate (1 species/year), although with uncertainty due to limitations in surveillance. The combination of the DTBird detection system, CCTV cameras, and coastal observation has made it possible to analyze the behavior of key species and evaluate the impact of the DemoSATH floating platform. The results underline the need to continue optimizing mitigation strategies to ensure compatibility between offshore wind energy and biodiversity.

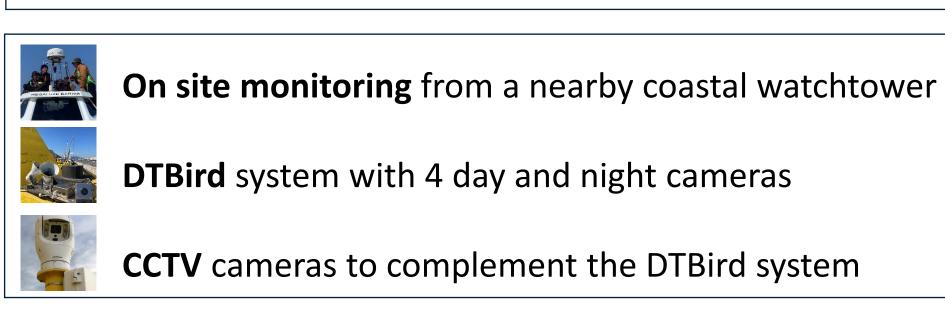


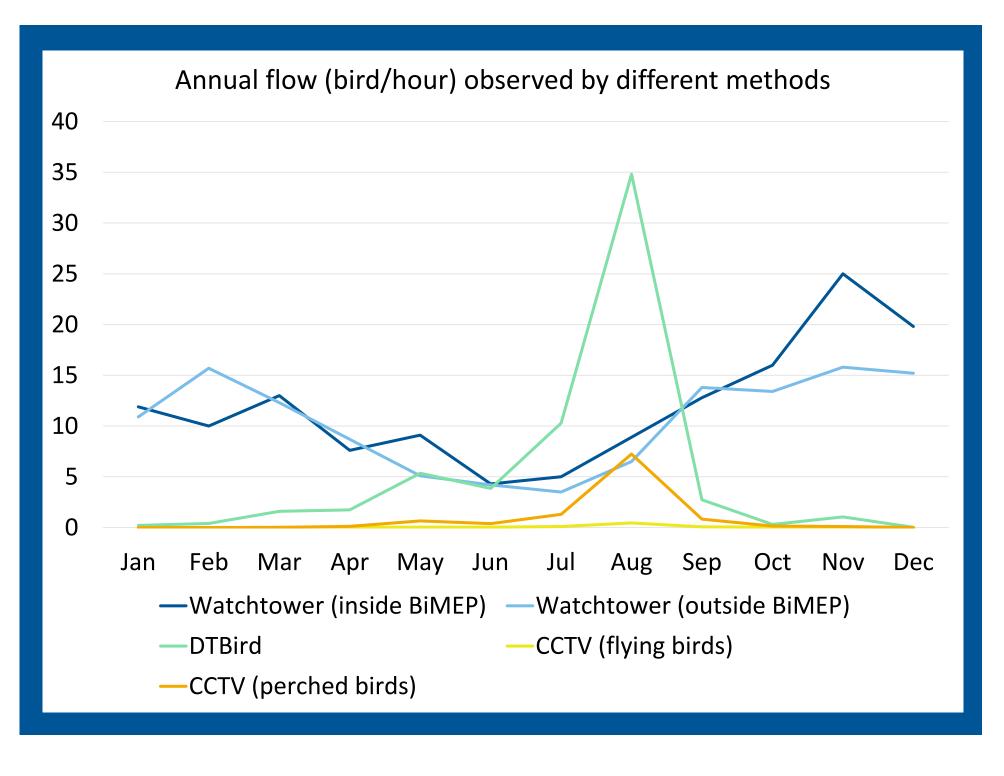
DemoSATH platform located in BiMEP, an open sea testing area within a Special Protection Area for Birds (SPA): ES0000490 Marine Space of the Mundaka-Cape of Ogoño.

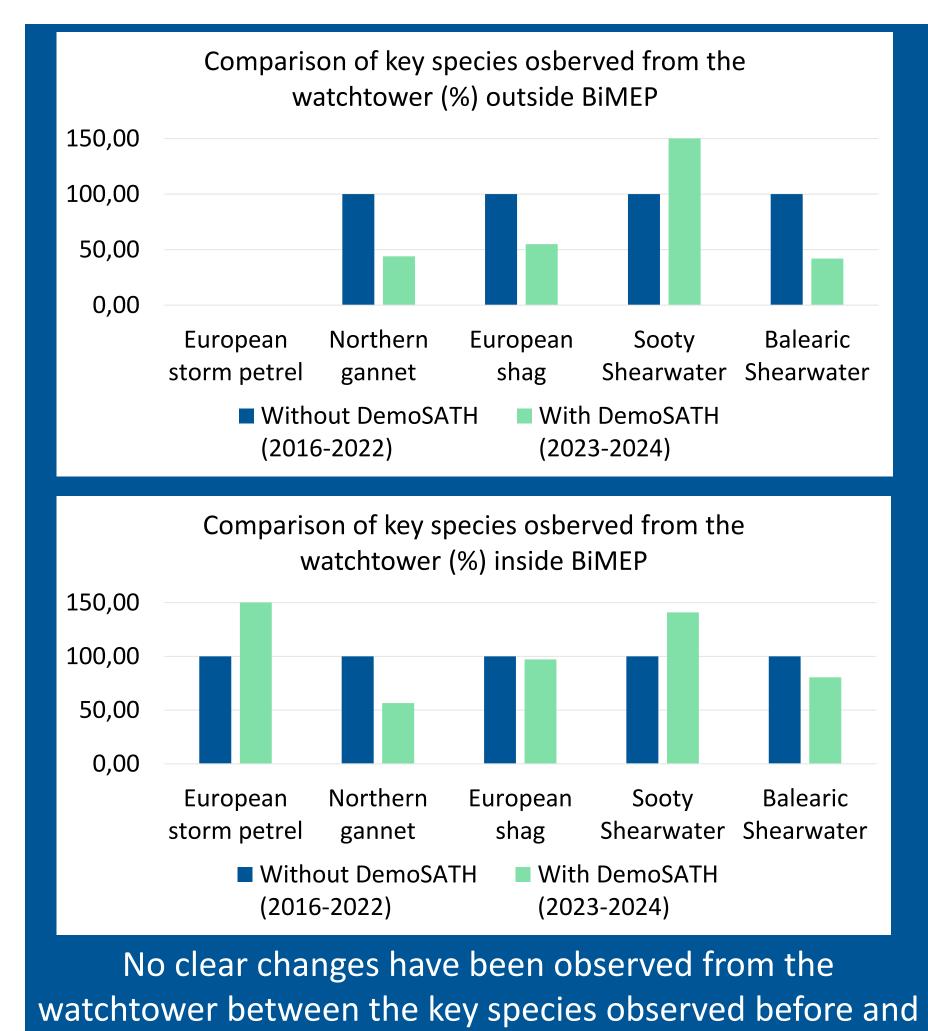
BiMEP
Environmental
Impact Statement
(EIS) requires bird
monitoring

**Key species**: *Hydrobates pelagicus, Phalacrocorax aristotelis, Puffinus griseus, Puffinus mauretanicus* and *Morus bassanus* 

Three methods to ensure comprehensive bird monitoring







watchtower between the key species observed before and after the installation of the DemoSATH platform, neither outside nor inside BiMEP. Additional data from 2025 will help draw more precise conclusions.

Birds' data collected by CCTV cameras have been provided to ornithological entities with the aim of complementing the monitoring of the Bird SPA:

- Bird presence raw data
- Ringed species data
- Photographs and videos

**Uncertainty range of DTBird system:** 

- Camera's coverage: 80 %
- False negatives: 70 % (worst scenario)
- System activity: 91,5 %

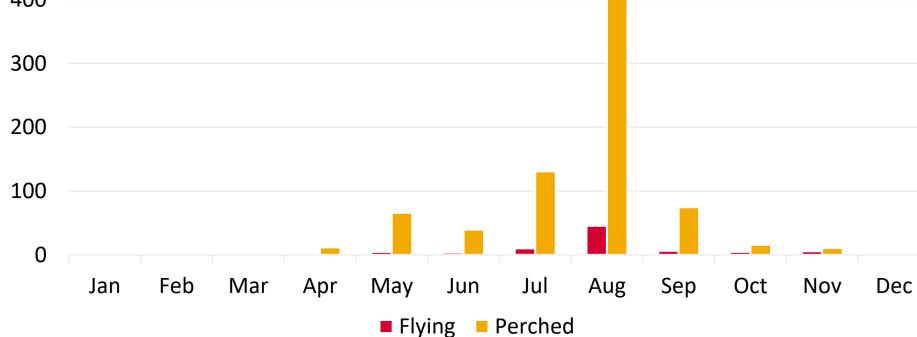
This value allows readjusting the annual result regarding the mortality rates:

Observed mortality rate

1 bird per 17,859 bird events

Corrected mortality rate
4.55 birds per 17,859 bird events

# Annual flow of birds per check observed by CCTV cameras 800 700 600 500 400 300





- More than 80% of the birds have been observed in the summer months
- Up to 99 % of birds detected with the CCTV are yellow-legged gulls
- 63 % of birds appear with the rotor inactive
- 92 % of birds appear perched on the platform (use of DemoSATH as a rest area)

## **DTBIRD DETERRENCE SIGNAL**

Average 16,8 signal hours/month

Total **201,3** signal hours/year

August 137,8 signal hours/month

Excessive deterrence signal hours

Habituation
of birds to
sound

Expected low effectiveness

## **DTBIRD STOP SIGNAL**

Average 19,1 signal hours/month

Total **229,1** signal hours/year

August 103,1 signal hours/month

Considering the **low mortality rate** observed during the year, it is considered to **adjust the sensitivity parameters** of the stop module.





C2-A70-2

