The PELGAS integrated survey conducted since 2000 in spring in the Bay of Biscay is presented.

PELGAS objectives have switched from the study of the anchovy stock status to ecosystem monitoring.

A method for selecting relevant ecosystem indicators is applied to PELGAS integrated survey.

Monitoring small pelagic fish in the Bay of Biscay ecosystem, using indicators from an integrated survey.

The PELGAS survey: ship-based integrated monitoring of the Bay of Biscay pelagic ecosystem.

Progress in Oceanography 2018 https://doi.org/10.1016/j.pocean.2018.03.007

Monitoring biodiversity is essential to marine conservation in European Marine Protected Areas (MPAs), especially in the Biscay Bay (West Atlantic).

Incremental and coastal offshore spatial gradients identified in pelagic fish and hydrology. Anomaly-chu model concentrates energy maximally found in warmer southern spring habitat in period 2000-2015. Small clupeiforms community found in coastal spring spawning habitats with higher variability in Biscay.


Data products for fish stocks and ecosystem assessment: the PELGAS survey example.

Spring habitats of small pelagic fish in the Bay of Biscay.

Exploring energy density sources of variability, species-energy relationships between species and/or environments are strong in Biscay.

Abundance of Marine Megafauna in the Bay of Biscay:

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Ecosystem spatial structure revealed by integrated survey data.

The nutrional quality is not homogenous among the mesozooplanktonic community in the Bay of Biscay.

The zooplanktonic studies.

The spring mesozooplankton variability and its relationship with hydrobiological structure over year-to-year changes (2003–2013) in the southern Bay of Biscay (Nort East Atlantic).

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Spring mesozooplankton was revealed over a decade in the southern Bay of Biscay.

Spatial structuration of habitats was mostly driven by continental outflow.

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