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Nationality: Spanish

Orientation: Sustainable use of marine resources
Specialization Area: Management and uses of resources
Research Area: 2.1 Research into resources based on knowledge of ecosystems



PhD project: Demography and trophic relationships of squid paralarvae in an upwelling area

Supervisors: Dr. Ángel F. González (Marine Research Institute-CSIC)
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Summary: This thesis is part of a project named CALECO which follows the research line that Ecobiomar (IIM-CSIC) has been developing over the last fifteen years in Northeast Atlantic waters.

The main objective of this PhD project is to investigate the demography and trophic relationships of wild squid paralarvae in the Ría de Vigo and Galician coast.

Moreover, it will be studied:

- How the oceanographic conditions affect the cephalopods and how they are related to the zooplankton communities.
- The vertical and spatial distribution of squid paralarvae through the column water.
- The trophic ecology of loliginid paralarvae using molecular techniques.
- The age in larvae of three species of loliginids (*Loligo vulgaris*, *Alloteuthis media* and *Alloteuthis subulata*) and to identify specific life-cycle events.



Loliginid paralarvae