



### Childhood education preservice teachers' knowledge and perceptions on sustainable fisheries and seafood

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Sustainable fisheries are needed to achieve the Sustainable Development Goal 14 “Conserve and sustainably use the oceans, seas and marine resources for sustainable development”. Environmental education at school can be a keystone to achieve this goal and requires to include (biodiversity) knowledge about marine species collected and to develop an education for responsible consumption since early years.

A didactic sequence to allow that early childhood education preservice teachers thinking about sustainability of fisheries and learn on fish and seafood fished and consumed in Asturias was implemented. A diagnostic questionnaire and dialogic sessions on Asturian small-scale fisheries, labelling and identification of fish, enumeration and identification of collected fish, molluscs and crustaceans was design.

Preservice teachers expressed doubts about the situation of small-scale fisheries in Asturias. They considered that most of the fishing boats and jobs depended on artisanal fisheries, and that these fisheries were carried out near the coast, but they were not clear which species are included in artisanal fisheries or what happened in fisheries on the high seas. The teachers listed between 1 and 8 species of fish, 0-8 of molluscs and 1-7 of crustaceans collected for human consumption. They trust that the labelling of seafoods allows to know its origin, and they know that seafood available in fishmongers and local restaurants can come from different areas, although they don't know whether the seafood obtained by small-scale fisheries could be consumed far from the fishing towns. Preservice teachers are aware of their limitations to identifying the most common fish on the food, fishmongers or in the sea. Between a third and a half of the students correctly identified relatively common species (gilt-head bream, sea bass, cockle, anchovy, four-spot megrim...), with lower results for live specimens than those photographed in fishmongers.

# **Sustainable Fisheries and Global Change**

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