

## PARTNERS



SUMMER's ambition is to obtain the information vital for a sustainable use of ocean resources through a comprehensive understanding of ocean functioning across its full depth.



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## INTRODUCTION

SUMMER will establish a protocol to accurately estimate mesopelagic fish biomass, quantify the ecosystem services provided by the mesopelagic community (food for aquaculture, for humans, for other wild fish, climate regulation and potential for bioactive compounds) and develop a decision support tool to quantitatively balance the trade-offs between the different services for any given exploitation scenario.



Photo by Guro M. Tveit | SINTEF Ocean



Photo by Leif Grimsmo | SINTEF Ocean

## AMBITION

SUMMER's ambition is to obtain the information vital for a sustainable use of ocean resources through a comprehensive understanding of ocean functioning across its full depth. Up to now the ocean has been studied in layers, with a bias towards the surface one where photosynthesis takes place and viewing the flux of material as simply downward. However, the unexpectedly large new estimates of mesopelagic biomass clearly indicate that we need to consider the whole ecosystem vertically integrated from surface to seafloor because these abundant organisms frequently traverse the full water column.

## WORK PACKAGES

- WP1 OPEN SCIENCE
- WP2 BIODIVERSITY AND BIOMASS
- WP3 FOOD-WEB STRUCTURE AND RESILIENCE
- WP4 CARBON STORAGE AND CLIMATE REGULATION
- WP5 HIGH VALUE PRODUCTS
- WP6 ECOSYSTEM SERVICES AND MANAGEMENT EVALUATION
- WP7 COMMUNICATION, DISSEMINATION AND EXPLOITATION
- WP8 MANAGEMENT
- WP9 ETHICS REQUIREMENTS



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