



Food and Agriculture  
Organization of the  
United Nations



General Fisheries Commission  
for the Mediterranean  
Commission générale des pêches  
pour la Méditerranée

# FISHFORUM<sup>2018</sup>



## BOOK OF ABSTRACTS



# **FISH FORUM BOOK OF ABSTRACTS**



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS  
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## Poster title

**Modelling the dispersion of early life stages of Blackspot seabream in the Strait of Gibraltar**

## Abstract

The blackspot seabream (*Pagellus bogaraveo*) is a commercially appreciated demersal fish, widespread in the North-eastern Atlantic and middle-western Mediterranean. The Strait of Gibraltar is an important fishing area where artisanal fleets from Spain and Morocco target this species using special longline gears known as “voracera”. Different assessments of the state of health of this species point to the same result: a clear overexploitation of the resource with no specific/joint management implemented yet. There is some agreement in literature in considering the Strait of Gibraltar as a specially energetic and dispersive spawning zone for this species. After the spawning, eggs and larvae (early life stages [ELS]) would be scattered to both sides of the Strait of Gibraltar, mostly to the breeding area close to Estepona, where high concentrations of juveniles occur. A high resolution hydrodynamic model coupled to a 3D Lagrangian particle tracking system is employed to assess the potential dispersal pathways of blackspot seabream ELS spawned in the Strait of Gibraltar. Recursive releases of passive tracers in virtual spawning spots in this zone are tracked under different conditions of tidal current, including fortnightly modulation, in order to obtain the spatial dispersion patterns of the studied species. Semidiurnal variability appears as a fundamental factor for horizontal dispersion and vertical displacement of the spawning products, determining the trajectories of the ripening ELS of the species.

This volume includes all the abstracts of the keynotes, oral contributions and posters presented by participants on the occasion of the Forum on Fisheries Science in the Mediterranean and the Black Sea (Fish Forum 2018). Organized by the GFCM at FAO headquarters, Rome, Italy, from 10 to 14 December 2018, in collaboration with technical partners, the Fish Forum 2018 is a first-of-the-kind event gathering scientists, researchers, engineers, academics, practitioners, managers and decision-makers from around the world to discuss and share knowledge on the latest developments in fisheries science.

The material contained in this book of abstracts stems from the contributions received from participants and selected by an international scientific committee based on their technical quality and relevance. The abstracts are subdivided according to the three main themes of the Fish Forum 2018: Better science for better advice; Healthy seas and sustainable fisheries; and Economic analysis and technology for societal benefit. Each theme is introduced by a keynote presentation, followed by oral presentations and posters. These documents form the basis of the discussions held during parallel sessions and poster sessions of the Fish Forum 2018.

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