

CopeMed II Workshop on methodologies for the identification of stock units in the Alboran Sea

3-6 April 2017, Alicante, Spain

Venue: Casa Mediterráneo. Plaza del arquitecto Miguel López, s/n, Alicante.

Draft Annotated Agenda

Monday 3rd April 19:00

1. Opening session
2. Background and objectives of the workshop (*CopeMed II*)

*Welcome event by the local organizers: Casa Mediterráneo and Spanish authorities.
Social dinner*

Tuesday 4th April 9:00 to 18:00

3. Adoption of the agenda and appointment of the Chairperson
4. Overview of current knowledge, historical trends, stock status and uncertainties about stock boundaries of sardine and hake in Alboran Sea (*H. Farrugio. CopeMed II*)
5. Hydrological characteristics of Alboran Sea in connection with larval drift.
 - *Hydrodynamic connectivity of the Alboran Sea (J. García Lafuente et al.)*
 - *Explicit implementation of connectivity estimates in population dynamics and assessment frameworks: the European hake in the northwestern Mediterranean (M. Hidalgo)*
 - *Connectivity between spawning and nursery areas. The case of mullets in the Straits of Sicily. (F. Fiorentino)*
6. Current approaches and methods used to define stock boundaries.
 - 6.1. Genetic markers
 - *General considerations for a genetic approach to the identification of stock units in the Alboran Sea. (C. Johnstone and M. Pérez)*
 - *Population genetics of hake species along the Moroccan coasts for fishery management purposes. (K. Mokhtar-Jamäi)*
 - *Genomic approaches and targeted genetic markers can identify fine-scale structuring in marine fish populations. (A. Cariani and F. Tinti)*
 - 6.2. Morphometry and meristics.
 - *Analysis of morphometric variability in *Chelidonichtys lucerna* populations (*triglidae*) from Algerian coasts. (T. Filali)*

- *Discrimination between stocks of sardine in Algerian coast using the number of vertebrae. Bibliography analysis. (K. Ferhani)*

Wednesday 5th April 9:00 to 18:00

6.3. Growth marks and elemental composition of otoliths.

- *Contribution to the identification of the stock structure of *Sardina pilchardus* along the Tunisian coasts, using otolith shape and microchemistry analysis. (S. Khemiri)*
- *Applications of stable isotopes analysis for fish regional stock, spatial segregation and ecosystems connectivity within the Alboran Sea. (R. Laiz-carrión et al.)*

6.4. Life history traits (growth, reproduction, length-at-age, body condition)

- *Biological parameters of small pelagic fish as an indicator of variability (Case of the Moroccan Atlantic). (F. Wahbi)*
- *Contribution to the identification of the stock structure of *Sardina pilchardus* along the Tunisian coasts using growth patterns and body shape (A. Gaamour)*

6.5. Parasites as natural markers.

- *Integrating parasites as biomarkers in the frame of a holistic approach for stock identification of pelagic and demersal Mediterranean Sea fish species. (S. Mattiucci)*
- *Spatial variability of metazoan parasites and evidence for stock discrimination in small pelagic fishes off the coast of Tunisia. (M. Feki)*
- *A general framework for an holistic approach to fish stock identification: the example of the HOMSIR project with the Atlantic horse mackerel. (P. Abaunza)*

7. Multi-dimensional identification of stocks: the STOCKMED approach. (F. Fiorentino)

Thursday 6th April 9:00 to 18:00

8. Discussion about suitable methodologies, data and resources needs to enhance the knowledge on stock units in the Alboran Sea.
9. Development of a sub-regional medium term research program for the definition of stocks units of selected species in the Alboran Sea.
10. Closure of the meeting