

The **Workshop on Adult Egg Production Methods Parameters estimation in Mackerel and Horse Mackerel (WKAEPM)** chaired by Maria Korta\*, Spain, will meet in San Sebastian, 22-26 November 2021 to:

- a) Inter-calibration of egg production methods (Annual and Daily Egg Production Methods), including historical re-evaluation of histological samples for maturity, fecundity, batch fecundity Estimation and atresia and post-ovulatory follicle classification **ICES Science plan [3.1](#), [3.3](#), [5.1](#)**
- b) Comparison of egg production indices based on harmonized maturity, fecundity, atresia and POF estimates with currently used egg production estimates. **ICES Science plan [3.1](#), [3.3](#), [5.1](#)**
- c) Review existing, previously utilized and newly developed methods and calculations for realised fecundity estimation as well as batch fecundity and spawning fraction estimation, and document changes in procedures and their consequences in a protocol to be stored on the WGMEGS GitHub; **ICES Science plan [3.1](#), [3.3](#), [5.1](#)**
- d) Review available documentation on adult parameters estimation, both textual and **figures, to redefine the standard protocols and update the survey manual**; **ICES Science plan [3.1](#), [3.3](#), [5.1](#)**

**WKAEPDM will report by 7 January 2022 for the attention of EOSG, WGMEGS, WGALES and WGBIOP**

### Supporting Information

Priority	Data quality, used to provide fisheries advice through WGWIDE, will be impaired if this workshop is not conducted.
Scientific justification	<p>Adult reproductive parameters estimation is fundamental for conversion of egg production into spawning stock biomass of western and southern mackerel and horse mackerel stock components. Both (batch) fecundity and atresia estimation as well as spawning fraction estimation are carried out using histological and image analysis methods, and the analysis and interpretation of these materials requires standardization across participating institutes. The standardization in this aspect is carried out in workshops since 2001 which have been extremely helpful for agreed practices among institutes and is recommended that experiences gathered during these workshops be extended during the consecutive workshop in 2021. It is expected that the workshop will refine the developed methodologies and clarify established calculations for these adult parameters estimation to obtain unbiased biomass output from the egg surveys.</p> <p>The workshop will update the survey manual with regards to any new findings in the fecundity, atresia, and spawning fraction estimation from sampling as well as the evaluation procedures and final calculations, for appropriate quality assurance purposes.</p>
Resource requirements	None
Participants	Mainly scientists and technicians (approximately 20) involved in the surveys.

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Secretariat facilities	None.
Financial	No financial implications.
Linkages to advisory committees	ACOM
Linkages to other committees or groups	SCICOM, WGMEGS, WGBIOP, WGALES WGISDAA and WGWIDE
Linkages to other organizations	None.

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