

# Meeting of the ICES Working Group on Atlantic Larvae and Egg Surveys (WGALES)

Meeting-Location: Nausicaá Aquarium  
Boulevard Saint-Beuve , 62200 Boulogne-sur-mer FRANCE

Hosting institute : IFREMER, Institut Français Recherche Exploitation de la Mer, 150 Quai Gambetta  
62200, BOULOGNE-SUR-MER ([https://wwz.ifremer.fr/manchemerdunord\\_eng/](https://wwz.ifremer.fr/manchemerdunord_eng/))

**Dates and times: 17 October 2022, 13:00h –21 October 2022 12:00h**

## **Agenda:**

Mo Oct 17<sup>th</sup>

13:00 Welcome, house keeping

13:10 ToRs: to do's and end-of-term retrospective

14:00 *Session 1 Fish egg and larvae surveys throughout Atlantic regions-(News, issues, methodology etc. ) -short intro*

13:20 Bastian Huwer et al.: Five years of MIK pilot surveys during the Q3 IBTS – Potential for implementing a North Sea sprat recruitment index and future plans

13:40 Patrick Polte: Rügen herring larvae survey- heaven & hell of weekly bay- scale sampling

## **14:00 Coffee break**

14:15 Cindy van Damme: 'The missing eggs'

14:35 Bastian Huwer et al.: The 2022 MIK-IBTS Herring larvae survey – A survey with many challenges

14:55: Katey Marancik: Integrating long-term plankton sampling with wind-energy monitoring

15:55 Discussion on issues, survey technology, sample/data processing, data needs etc.

17: 00 Wrap up & Report writing

Di 18<sup>th</sup>

9:30 **Session 2: Early life history ecology: Insights on distribution and survival dynamics in a warming ocean-short intro**

9:35 Timo Arula et al.: A productivity bottleneck in the Baltic herring (*Clupea harengus membras*): Early life-history processes and recruitment variability

9:55 Bastian Huwer et al.: Identifying spawning and settlement areas of sandeel (*Ammodytes marinus*) in the North Sea based on the distribution of recently hatched larvae and drift modelling

10:35 Coffee break

10:50 Lola Toomey: Impact of temperature on Downs herring embryonic stages and first insights on maternal effects

11:10 Léa Joly: Impact of global change on the development and survival of Atlantic herring (*Clupea harengus*): A multi-stressors approach

11:30 Patrick Polte et al.: Reduced reproductive success of Western Baltic herring (*Clupea harengus*) as a response to warming winters

11:50 Maik Tiedemann et al.: Anchovy and sardinella reproduction are regulated by upwelling and relaxation conditions in the southern Canary Current ecosystem

12:15 Lunch break

14:00 Cross-WG exchange: Karen Bekaert: WGSMART, WGBIOP members

16:00 End-of-term report writing

**Wed. 19<sup>th</sup>**

**WORKSHOP: Jean-Baptiste (Ifremer): Ichthyoplankton/Zooplankton processing with imaging techniques (Zooscan, Zoocame and Ecotaxa)**

Morning Location: At the IFREMER – Ichthyoplankton laboratory for an introduction on the ZooSCAN (system that makes use of scanner technology with custom lighting and a watertight scanning chamber into which liquid zooplankton samples can be placed)

Afternoon location: Back at the Nausicaa Aquarium to learn and practice how to process images using EcoTaxa: a web application where users can (i) upload and host images of individual objects, (ii) name them according to a universal taxonomy with the help of advanced machine learning algorithms.

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learning algorithms, and (iii) export the resulting ecological data in standard and easy to use formats, for scientific exploitation and dissemination. It is currently massively used for images collected by quantitative plankton imaging instruments

Thurs 20<sup>th</sup>

**9:30 *Session 3: Maturation, migration and environmental cues for reproduction-short intro***

9:35 Katerina Charitonidou: Evidence of photoperiod induced effect on the onset of the seasonal reproductive activity in sardine and anchovy

9:55: Andrejs Makarčuks: Interannual changes in the time of spawning of sprat in the Gotland Basin (Eastern Baltic Sea) in relation to the hydrographical conditions and the structure of spawning stock

10:15 Paul Marchal: Effects of global warming on the phenology of winter-spawning migrations in Downs herring

**10:35 Coffee break**

**10: 50 WGALES Business:**

Recommendations to WGALES, nomination of new chairs etc.

12:00 Lunch break

14:00 Adriana Villamor: Eggs and Larvae database and indices calculation procedures.

14:20 Discussion eggs & larvae database

15:00 End-of term report writing

19:00 Dinner at the Aquarium

Fri 21<sup>th</sup>

9:30: End-of term report writing

**10:30 Coffee break**

10:50: Meeting Summary, future tasks, new ToRs

12:00 End of meeting

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