

Sampling scheme identifier: **Autumn Acoustic Survey - IBERAS**

MS: PRT
Region: North-East Atlantic
Sampling scheme identifier: IBERAS
Sampling scheme type: Research survey at sea
Observation type: SciObsAtSea
Time period of validity: 2025-2027
Short description (max 100 words): The main objective of IBERAS is to get a recruitment index for sardine (<i>Sardina pilchardus</i>) and anchovy (<i>Engraulis encrasicolus</i>) in Atlantic waters of the Iberian Peninsula, aiming to improve the estimation of the strength of the recruitment of the Ibero-Atlantic sardine and the western component of the south anchovy population.
Description of the population
Population targeted: Main species target: sardine (<i>Sardina pilchardus</i>) and anchovy (<i>Engraulis encrasicolus</i>); Secondary species: Atlantic chub mackerel (<i>Scomber colias</i>) and horse mackerel (<i>Trachurus trachurus</i>). Other pelagic fish in catches are mackerel, (<i>Scomber scombrus</i>), boarfish (<i>Capros aper</i>), blue jack mackerel (<i>Trachurus picturatus</i>), bogue (<i>Boops boops</i>), and longspine snipe fish (<i>Macroramphosus</i> sp.) Population sampled: Small pelagic species. Stratification: N.
Sampling design and protocols
Sampling design description: See Text Box 2.6 and Table 2.6. See description in: ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG). https://doi.org/10.17895/ices.pub.7462 Is the sampling design compliant with the 4S principle? NA – Research survey at sea. Regional coordination: Coordinated internationally by ICES WGACEGG. http://www.ices.dk/community/groups/Pages/WGACEGG.aspx Link to sampling design documentation: ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Design follows international recommendations:

Y.

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Link to sampling protocol documentation:

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Protocol follows international recommendations:

Y.

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Sampling implementation

Recording of refusal rate:

NA.

Monitoring of sampling progress within the sampling year:

NA.

Data capture

Means of data capture:

Simrad EK80 – frequencies 18, 38, 70, 120 and 200 KHz. Data storage and post-processing software: Movies+/Ecoview. Pelagic trawl. CUFES, continuous underway fish egg sampler, plus coupled temperature, salinity and fluorescence sensors. CTD and Bongo nets.

Data capture documentation:

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Quality checks documentation:

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Data storage

National database:

National database.

International database:

NA.

Quality checks and data validation documentation:

Quality check is performed along the process of recording in the database with a second reviewer. Final check is performed with a R-script for outliers checking.

Sample storage

Storage description:

Otoliths and plankton stored at IPMA storage facilities, otoliths stored dry or in resin and are kept after processing.

Sample analysis:

See “sample description”.

Data processing**Evaluation of data accuracy (bias and precision):**

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Editing and imputation methods:

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Quality document associated to a dataset:

ICES Survey Protocols – Manual for Acoustic Surveys Coordinated under ICES Working Group on Acoustic and Egg Surveys for Small Pelagic Fish (WGACEGG).

<https://doi.org/10.17895/ices.pub.7462>

Validation of the final dataset:

Data are cross-checked, theoretical length-weight relationships applied outliers are evaluated.