EFH Project - Fish survey datasets

Dataset name (Excel format):

1.IBTS\_NS-IBTS data\_Datras-ICES

Dataset name (subsets in CSV format):

1.IBTS\_NS-IBTS data\_Datras-ICESa (haul data)

1.IBTS\_NS-IBTS data\_Datras-ICESb (catch data)

Content description:

Dataset of fish catch data from ICES-coordinated Bottom trawl surveys (IBTS; broad scale, standardised sampling with GOV-trawl, mainly offshore) undertaken by different countries in the North Sea (North Sea International Bottom Surveys, NS-IBTS; quarters Q1, Q2 and Q3 available). The dataset is an extract of the DATRAS online database, including data on haul characteristics (subset a) and CPUE (by species by length class) for fish and shellfish species of interest for the project (subset b), with selection of survey events within the period 2010-2020 and survey locations within/around UK waters (Longitude <5 deg E, excluding Baltic).

Dataset structure:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Column Heading | Description | Variable type | Unit/categories (incl. NA where no data) | Source | Subset |
| Survey | Survey code | Categorical (nominal) | BTS; EVHOE, IE-IGFS, NS-IBTS, SCOROC, SCOWCGFS; MEGS (codes and explanations from ICES vocabularies - https://vocab.ices.dk/); East Coast, West Coast (of Scotland; from sandeel dredge survey) | Original survey dataset | ab |
| Country | Country code (for ICES surveys only) | Categorical (nominal) | BE, DE, DK, FR, FO, GB, GB-SCT, IS, IE, NL, NO (codes and explanations from ICES vocabularies - https://vocab.ices.dk/) | Original survey dataset | ab |
| Ship | Ship code (for ICES surveys only) | Categorical (nominal) | (codes and explanations from ICES vocabularies - https://vocab.ices.dk/) | Original survey dataset | a |
| HaulNo (or HaulID, or Haul) | Haul identification number/code (as allocated in original survey dataset) | Categorical (nominal) | - | Original survey dataset | a |
| Haul-ID | Index identifying survey haul, as a combination of survey name, date, latitude and longitude and gear | Categorical (nominal) | Category defined by combination of survey name (e.g. SIAMISS, NS-IBTS), haul event (date, as number), haul location (latitude and longitude, as deg N and deg E WGS 1984, respectively), and gear type (e.g. GOV) | - | ab |
| Gear | Sampling gear | Categorical (nominal) | BT4A, BT4AI, BT4S, BT7, BT8; GOV; BGN60, Gulf7, NACKTHAI (codes and explanations from ICES vocabularies - https://vocab.ices.dk/); DREDGE (sandeel survey) | Original survey dataset | ab |
| ShootLong (or StartLongitude, or Dec lat shoot) | Haul location (shooting point), latitude (WGS 1984) | Numeric (continuous) | deg N | Original survey dataset | ab |
| ShootLat (or StartLatitude, or Dec long shoot) | Haul location (shooting point), longitude (WGS 1984) | Numeric (continuous) | deg E | Original survey dataset | ab |
| LATave (or lat) | Haul location, latitude (WGS 1984); calculated as central point (mean) between shooting and hauling locations where these are available from original dataset (LATave) | Numeric (continuous) | deg N | Calculated from original survey dataset | ab |
| LONGave (or lon) | Haul location, longitude (WGS 1984); calculated as central point (mean) between shooting and hauling locations where these are available from original dataset (LONGave) | Numeric (continuous) | deg E | Calculated from original survey dataset | ab |
| Quarter | Haul event, Quarter; derived from Date | Categorical (nominal) | 1, 2, 3, 4 | Derived from original survey dataset | ab |
| Date | Haul event, Date | Numeric (discrete) | [date in numerical format] | Original survey dataset | ab |
| Year | Haul event, Year; derived from Date | Numeric (discrete) | Year | Derived from original survey dataset | ab |
| Month | Haul event, Month; derived from Date | Numeric (discrete) | Month number (1-12) | Derived from original survey dataset | ab |
| Day | Haul event, Day; derived from Date | Numeric (discrete) | Day number (1-31) | Derived from original survey dataset | a |
| DayNight | Haul event, day/night timing | Categorical (nominal) | Day (D), Night (N) | Original survey dataset | a |
| Species | Species latin name | Categorical (nominal) | [species latin name] | Original survey dataset | b |
| Sex | Sex of the individual(s) in the catch | Categorical (nominal) | Male, Female ('-9' where not reported) | Original survey dataset | b |
| LngtClass | Body length class | Numeric (continuous) | millimeters (mm) | Original survey dataset | b |
| CPUE\_number\_per\_hour | Catch per Unit Effort for relevant combination of species and size class | Numeric (continuous) | individuals per hour per haul | Original survey dataset | b |