EFH Project - Fish survey datasets

Dataset name (CSV format):

9.Sandeel dredge survey data 2008-21\_MS

Content description:

Dataset of fish catch data from the annual sandeel dredge survey undertaken by Marine Scotland in quarter Q4 (mainly December) at sandeel fishing grounds off the Firth of Forth and Turbot Bank (in Sandeel Area 4, East coast of Scotland, where the largest of the sandeel stocks in Scottish waters is and there is an active fishery for it). The dataset is an extract of the sandeel dredge survey database provided by Marine Scotland, combining data on haul characteristics (timing and location) and CPUE for sandeel (mostly represented by Ammodytes marinus), with all survey events (between 2008 and 2021) and all survey locations (east coast of Scotland between 2008-2020, west coast of Scotland in 2021) included.

Dataset structure:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Column Heading | Description | Variable type | Unit/categories (incl. NA where no data) | Source |
| Cruise | Cruise number | Categorical (nominal) | - | Original survey dataset |
| HaulNo (or HaulID, or Haul) | Haul identification number/code (as allocated in original survey dataset) | Categorical (nominal) | - | Original survey dataset |
| 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 |
| ShootLong (or StartLongitude, or Dec lat shoot) | Haul location (shooting point), latitude (WGS 1984) | Numeric (continuous) | deg N | Original survey dataset |
| ShootLat (or StartLatitude, or Dec long shoot) | Haul location (shooting point), longitude (WGS 1984) | Numeric (continuous) | deg E | Original survey dataset |
| HaulLong (or Dec long haul) | Haul location (hauling point), latitude (WGS 1984) | Numeric (continuous) | deg N | Original survey dataset |
| HaulLat (or Dec lat haul) | Haul location (hauling point), longitude (WGS 1984) | Numeric (continuous) | deg E | Original survey dataset |
| 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 |
| 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 |
| Bank/Area | Haul location, Sandeel Bank/area name | Categorical (nominal) | [name of sandeel bank] | Original survey dataset |
| Station | Haul location, Station number | Categorical (nominal) | [discrete number] | Derived from original survey dataset |
| Quarter | Haul event, Quarter; derived from Date | Categorical (nominal) | 1, 2, 3, 4 | Derived from original survey dataset |
| Year | Haul event, Year; derived from Date | Numeric (discrete) | Year | Derived from original survey dataset |
| Month | Haul event, Month; derived from Date | Numeric (discrete) | Month number (1-12) | Derived from original survey dataset |
| Day | Haul event, Day; derived from Date | Numeric (discrete) | Day number (1-31) | Derived from original survey dataset |
| Distance (or Distance towed) | Haul, distance towed | Numeric (discrete) | meters (m) | Original survey dataset |
| Depth | Water depth | Numeric (discrete) | meters (m) | Original survey dataset |
| No sandeels | Sandeel count in the catch | Numeric (discrete) | number of individuals | Original survey dataset |
| No sandeels/hr | Catch per Unit Effort for sandeel | Numeric (continuous) | individuals per hour per haul | Original survey dataset |