**Introduction to the data**

The dataset consists of acoustic receiver deployment data, acoustic detections, stable isotope values, fish morphological data and genetic assignment data.

The different data types are stored in the following files:

Deployment location and depth data for each acoustic receiver, see file: Statinfo.csv

All detections, see file: Torsktotal.csv

Stable isotope values and fish morphological data, see file: Isotopes.csv

Genetic origin assignment data, see file: Assignment.csv

**The Statinfo.csv file**

The file contains data about the deployment location of the acoustic receivers. The columns contain the following data

“Name” is the name assigned to the receiver.

“Serial” is the serial number of the receiver, which is the number referred to as “Id” in the Torsktotal.csv detection data.

The various lat and longitude columns contain position data of the receiver’s location in different formats.

“Distance” is the distance of the receiver to the Skagerrak in kilometers.

“Depth” is the depth at the deployment location in meters.

**The Torsktotal.csv file**

There are a lot of detections in the Torsktotal.csv file, so it is recommended to use R to view these data.

The data consists of the columns “Row”,"Year","Month","Day","Hour","Minute","Second","Id","TBR.Serial.Number","Distance","Depth","Type"

The first column is just the row numbers.

“Year”, “Month”, “Day”, “Hour”, “Minute”, “Second” all report the time of the given detection.

“Id” is the tag id which identifies the fish and can be matched against the data in the Stable isotope and genetic assignment data files.

“Type” in the Torsktotal file refers to the origin assignment, where a type 1 is a North Sea fish and 2 is a local fish.

“TBR.Serial.Number” is the receiver number which can be used to identify position and depth of the receiver in the Statinfo.csv file.

“Distance” is the distance to Skagerrak of the detecting receiver in kilometers while “Depth” is the depth at the deployment location of the receiver in meters. These data are also taken from the Statinfo.csv file.

**The Isotopes.csv file**

This file contains the data used to analyze the food niche of the fish. It contains the following columns:

“Tag ID” is the ID of the acoustic tag of the fish.

“Nitrogen” is the standardized value of the Nitrogen isotope.

“Carbon” is the standardized value of the Carbon isotope.

“Fishtype” is the results from the genetic origin assignment in the Assignment.csv file. 1 is a North Sea fish and 2 is a local fish.

“Length” is the length of the fish at the time of tagging in cm.

“Homerange” is the homerange in hectares of each fish as calculated using the Torsktotal.csv data.

“Distance to Skagerrak” is the mean distance to Skagerrak (the open sea) in kilometers from each individual fish during the time where the array was operational in the fjord.

**The Assignments.csv file**

This file contains the output from the software that analyzed the genetic origin of the fish. It contains the following data:

“Assigned” is the ID of the sample.

“rank” is the type assigned to each fish.

“score” is the computed likeliness of the assignment.

“Nb. of loci” is the number of loci used in the computation.

“Used loci” mentions the loci used.

“Missing loci” mentions any loci not used in the computation.