

Digital Data Capture For Fisheries Research



The EFDAQ System

Electronically capturing data for surveys, catch sampling, observer programmes, self-sampling, laboratory sampling or wherever measurement data is collected.

Why digital capture

Quality assured data is a vital component in fisheries management and assessment but the data collection itself is a labour intensive, error sensitive process. The data entry and quality control processes are often geographically and temporally distant from the measuring process; meaning errors are difficult or impossible to correct. A digital solution puts the validation in the field and allows the data to be available 'back at base' so much sooner.

Why EFDAQ

EFDAQ provides a single solution for data collection across the majority, if not all, of your fisheries data collection scenarios. At-sea surveys, port sampling, observer sampling and laboratory sampling; your sampling team use exactly the same application - reducing training overheads and providing a consistent approach.

EFDAQ's integrated targeted sampling ensures you get full coverage for additional sampling without tally sheets or the users having to remember what samples are needed.

In the words of one of our clients ' we were apprehensive to start with, but its been an absolute game changer for us'

Data export and bespoke development

The link to your systems is the final part of the data collection journey, SeaScope can provide export formats to match any existing upload formats you have or help design new processes.

We think we have thought of most things you could need, but, if there is functionality you need to make the system work for you, we can provide bespoke developments to meet your requirements.

Support

As 'time-served' field biologists we appreciate that 'waiting until Monday at 9' when the help-desk opens is not an option when you need support. We offer genuine 24/7 support from our experts via email, WhatsApp or voice, we are here when you need us most. The system comes with a comprehensive set of manuals and demonstration videos.

For new clients we will deliver your system in person and provide on site training by one of our developers who knows the system inside out and has done the job.

We want your transition to digital data capture to be as smooth as we can make it.

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Overview

The EFDAQ system is an intuitive, flexible data capture platform designed and built by fisheries scientists for fisheries scientists. It can capture (and link) data regarding catch, size compositions and targeted biological samples.



You define the data

You are in control of what data is captured as part of the catch and sample meta-data, and the additional parameters from measured individuals. The only limit to how much data you collect is what you can define.



The applications

The system consists of 2 main modules within a single umbrella application. The Catch Management (CatMan) module is designed to capture and manage all the elements of a 'catch', it links to digital scales to capture weights directly.

The Sampling module (SaM) is the measuring module, it can be used in conjunction with CatMan or as a standalone module capturing all the sample meta-data as well as the individual measurements and additional biological samples.



Measuring

Using a measuring board and wand, digital callipers, or network-attached scales you can collect data for linear, mass, or volumetric measures at whatever precision you need.



Biological sampling

Once an individual has been measured it can be automatically targeted for more detailed sampling, otoliths, fin clips, morphometrics, parasites etc. The targeting can be based on items from the meta-data or a pre-defined stratum (geographic, temporal, bathymetric or anything else you can put a label on). The targeting can be based on individual sizes or groups of sizes with different target numbers for different sizes



QA & QC

Where possible, data is validated when it is captured using ranges, lookup lists etc. In 'survey mode' samples are linked to their associated catches, the sampling manager can see the status of all the catch and review completed samples. The system provides predicted weights using standard or log based size/weight models as well as at-a-glance plots of the current data vs predicted or historic values. This all enables outliers to be identified at the point of capture and corrections made while the individuals are still available to confirm values. .



About Us

SeaScope Fisheries Research Limited was formed in 2012 to provide fisheries research and monitoring solutions of the highest quality, independent of government or industry influence. Initially we were focussed on on-board observer programmes but over time we have carefully branched out into other related areas.

Outside of the EFDAQ system, our main areas of expertise are in designing and carrying out at sea research projects and operating long term monitoring programmes. We offer independent on board observers who understand the importance of data quality and integrity and the need to gather the best data possible without compromising on safety.

We are also highly experienced in implementing remote electronic monitoring (REM) solutions and are one of the leaders in the UK in this exciting and evolving facet of fisheries monitoring.

