**Quality checks at data capture of data collected at surveys on R/V Svea, eg, BITS, IBTS, BIAS, SPRAS, electronically recorded in the field with the application Sve-reg.**

Data collection made by Institute of Marine Research, Department of Aquatic resources (SLU Aqua), Swedish University of Agricultural Sciences.

Data is captured in an **electronic protocol**/application on board the research vessel Svea. The application, Sve-reg, is developed by the institute and is designed for different sampling scheme for surveys. The user chooses a sampling type of the current trip and is then **steered through a defined workflow**, with flexibility due to differences in work schedule on different surveys.

 Measurements as length can be made with an electronic calliper or electronic measuring board, connected by Bluetooth or USB-wire to the work station.

Weight of the species and individual weight is transferred electronically from the scale to the application.

When entering data into the application, length and weight are checked towards historical/ recent measured values of length-weight relationships +/- 30% for the measured species. **Outliers** can be found after internal calculations displayed as a graph with a follow up question if the value is correct, from the application when data is captured. If yes, the outlier value can still be stored.

Sample weights are checked by comparing the length frequency of the sample and sample weight cannot be larger than the total weight.

The person performing data capture choose e.g. latin names and other parameters in **predefined lists** in the application. Only comments can be made in free text.

At sea, the application controls that **all values needed** for a sample type is there, a) per individual when measuring individuals, b) per haul, when verifying the haul when ending the haul registration and c) per trip when verifying the trip, before ending the trip.

The **position** of the haul is acquired from the navigation system of the ship.

**Duplications** are checked for at several occasions, a) when importing data from the field, b) ad hoc in the database (for things that cannot be checked when registration or import of electronic data occurs) and c) when delivering data to ICES.

All data from the trip is transferred to the main database FD2 when coming back to the institute. When data is imported to FD2 some additional checks are made described in a separate document (“Quality checks database FD2”).