Trip based quality control procedures for catch sampling data

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The following checks are performed on data from each sampling trip:

Database consistency

Duplicate trips; Trips without hauls; Hauls with missing trips; Duplicate hauls; Hauls with success code 1 or 5 and no samples; Hauls with success code 1 or 5 and no catch or landings; Samples with missing hauls; Landings with missing hauls; Duplicate samples; Sample headers without samples; Species that do not exist in the species table; Missing success code; Measured landings that do not exist in the BULk table.

Raising factors

Unexpected sample weights; High raising factors; Missing raising factors; Negative discards; Sample weight larger than total discards; High proportion of discards; Low catch rate or landings rate; High catch rate or landings rate; Weight of measured discard ﬁsh larger than sample weight; Unexpected proportions of NFD.

Tow data

Excessive tow length or ﬁshing speed; Zero tow length; Impossible or unexpected shoot or haul positions; Short tow duration; Negative tow duration; Missing tow duration; Long tow duration; Tow shot before previous tow was hauled; Tow year doesn’t match year in cruise code; Tow dates outside cruise dates.

Length data

Any ﬁsh that are larger than the 99th percentile \* 1.5 or smaller than 1st percentile \* 0.5, are identiﬁed as outliers.