LISTA DELLE FUNZIONI CON ERRORE CORRELATO: SGAMATO – NON SGAMATO

| **CHECK** | **Function** | **errore** | **VERIFICA** |
| --- | --- | --- | --- |
| No identical record must be present in any file. | check\_identical\_records | Rigo XX ho inserito due record identici | La console di R si è bloccata e il logfile identifica il record ripetuto indicando il rigo. |
| The WING\_OPENING and VERTICAL\_OPENING fields have to be expressed in dm | check\_dm |  |  |
| WING\_OPENING, WARP\_DIAMETER and VERTICAL\_OPENING[[1]](#footnote-1) fields have to be not equal to 0 | check\_0\_fieldsTA |  |  |
| The DURATION, SHOOTING\_TIME and HAULING\_TIME fields have to be consistent | check\_consistencyTA\_duration |  |  |
| The DURATION and DISTANCE fields have to be consistent | check\_consistencyTA\_distance\* |  |  |
| The distance has to be consistent with the coordinates at the start and at the end of the haul | check\_distance\* |  |  |
| The hauls have to be on reasonable positions | check\_position[[2]](#footnote-2)\*\* |  |  |
| Check of the dictionary of specific fields (e.g. validity can be only V or I) | check\_dictionary |  |  |
| All the fields, except to HYDROLOGICAL\_STATION and OBSERVATIONS, must be not empty for valid hauls | check\_no\_empty\_fields |  |  |
| The field BRIDLES\_LENGTH can assume value 100 between 10-200 m of depth or 150 between 200-800 m | check\_bridles\_length\* |  |  |
| The difference between start depth and end depth should be not greater than 20% | check\_depth[[3]](#footnote-3)\* |  |  |
| Start depth and end depth of each haul should be in the same stratum | check\_stratum\* |  |  |
| The start and end coordinates of each haul must be in the Mediterranean Sea | check\_position\_in\_Med |  |  |
| Among hauls with the same code, only one must be valid | check\_unique\_valid\_haul |  |  |
| The shooting quadrant and the hauling quadrant should be the same | check\_quadrant |  |  |
| Check consistency between shooting depth and warp length and between warp length and wing opening | graphs\_TA |  |  |
| There must not be duplicated records | check\_identical\_records |  |  |
| There must not be quasi-identical records | check\_quasiidentical\_records |  |  |

**2.2 Check on TB file**

The checks specific for TB, already present in RoME 1.2 are summarized in the table below:

| **CHECK** | **Function** | **errore** | **VERIFICA** |
| --- | --- | --- | --- |
| Correctness of species MEDITS code and faunistic category according to reference list in Tables directory | check\_rubincode\* |  |  |
| NB\_TOT=NB\_F+NB\_M+NB\_U | check\_nbtotTB\* |  |  |
| The total weight and total number in the haul have to be consistent | check\_weight\* |  |  |
| If total weight is different from 0, total number must be different from 0 (only if the category of the species is different from “E”) and vice versa (for all faunistic categories) | check\_weight\_tot\_nb\* |  |  |
| Check of the dictionary of specific fields | check\_dictionary |  |  |
| All the fields must be not empty | check\_no\_empty\_fields |  |  |
| There must not be duplicated records | check\_identical\_records |  |  |
| There must not be quasi-identical records | check\_quasiidentical\_records |  |  |

**2.3 Check on TC file**

The checks specific for TC, already present in RoME 1.2, are summarized in the table below:

| **CHECK** | **Function** | **errore** | **verifica** |
| --- | --- | --- | --- |
| Correctness of LENGTH\_CLASSES\_CODE | check\_length\_class\_codeTC |  |  |
| Consistency of LENGTH\_CLASS | check\_length[[4]](#footnote-4)\* |  |  |
| Consistency between sum of NB\_LON and NB\_SEX | check\_nb\_per\_sexTC |  |  |
| Consistency of maturity stages, according to the faunistic category, sex and species | check\_mat\_stages\* |  |  |
| Correctness **only** of species MEDITS code | check\_rubincode\* |  |  |
| Check of the dictionary of specific fields | check\_dictionary |  |  |
| All the fields must be not empty (different from NA) | check\_no\_empty\_fields |  |  |
| Fishes and cephalopods length classes must have full or half step (in case of LENGTH\_CLASSES\_CODE=1 only full). All the measures , must be integer numbers. | check\_step\_length\_distr |  |  |
| Check consistency of size of mature individuals compared with the size of smallest mature individual reported in bibliography | check\_smallest\_mature |  |  |
| Check consistency of maturity stages using information about spawning period, L50 and size of smallest mature individual collected from literature. | check\_spawning\_period[[5]](#footnote-5)\* |  |  |
| The user will be informed if information about sex-inversion size for hermaphrodite species (at the moment only for *Pagellus spp*. and *Spicara spp.*) is stored in Maturity parameters. | check\_sex\_inversion\* |  |  |
| There must not be duplicated records | check\_identical\_records |  |  |
| There must not be quasi-identical records | check\_quasiidentical\_records |  |  |

**2.4 Check on TE file**

From 2012 TE table has been introduced in the exchange formats of MEDITS data, containing the individual data. For this table specific checks have been foreseen:

|  |  |  |  |
| --- | --- | --- | --- |
| **CHECK** | **Function** | **Errore** | **verifica** |
| Correctness of species MEDITS code and faunistic category according to reference list in Tables directory | check\_rubincode[[6]](#footnote-6)\* |  |  |
| Consistency of individual weights (according to length-weight relationship) | check\_individual\_weightTE.r |  |  |
| All the fields except the last three must be not empty (different from NA) | check\_no\_empty\_fields.r |  |  |
| Consistency of number of individuals sampled for weight and ageing in TE | check\_nb\_TE |  |  |
| Consistency of maturity stages, according to the faunistic category, sex and species | check\_mat\_stages |  |  |

**2.6 Check on TL file**

For the data on marine litter a set of ad hoc checks were developed:

|  |  |  |  |
| --- | --- | --- | --- |
| **CHECK** | **Function** | **Errore** | **verifica** |
| Check of the dictionary of specific fields (category and sub-category) | check\_dictionary |  |  |
| Check correctness of associations between category and sub-category on Litter data | check\_associations\_category\_TL |  |  |
| Check if the number is always filled in on Litter data | check\_no\_empty\_fields |  |  |
| Check identical records | check\_identical\_records |  |  |
| Check if the number is always not null on Litter data | check\_0\_nbTL |  |  |

**2.7 Cross-checks**

The cross-check among TA, TB, TC already present in RoME 1.2 are listed below:

|  |  |  |  |
| --- | --- | --- | --- |
| **CHECK** | **Function** |  |  |
| All the hauls in TA must be in TB | check\_hauls\_TA\_TB |  |  |
| All the hauls in TB must be in TA | check\_hauls\_TBTA |  |  |
| All the target species in TB must be in TC | check\_species\_TBTC[[7]](#footnote-7)\* |  |  |
| All the species in TC must be listed in TB | check\_haul\_species\_TCTB |  |  |
| All the hauls in TC are in TB | check\_haul\_species\_TCTB |  |  |
| In case of sub-sampling in TC, the Total number and the number per sex in TB must be raised correctly | check\_raising |  |  |
| TA, TB and TC must have the same year and area | check\_area\_year |  |  |

In RoME versions >=1.3 new cross checks related to the introduction of the new formats have been introduced:

|  |  |  |  |
| --- | --- | --- | --- |
| **CHECK** | **Function** |  |  |
| Check if the individuals by species, length, sex and maturity stage reported in TE are less than the number reported in TC | check\_TE\_TC |  |  |
| Check if the date of the haul in TB,TC and TE is consistent with TA | check\_date\_haul |  |  |
| Summary of the individual data collected by species | scheme\_individual\_data |  |  |
| Check if the date in TL is consistent with TA | check\_date\_haul |  |  |
| Check if the hauls in TL are present in TA | check\_hauls\_TLTA |  |  |
| Check if the hauls in TA are present in TL | check\_hauls\_TATL |  |  |

1. If vertical opening and warp diameter fields equal 0, only a warning message is given, because these values are not necessary for the calculation of swept area. [↑](#footnote-ref-1)
2. \*\* This check gives a graphical output that has to be checked by the user. Graphs are automatically saved in *RoME/Graphs* directory. [↑](#footnote-ref-2)
3. \* This check gives only a warning message. The check procedure is not stopped. [↑](#footnote-ref-3)
4. \* This check gives only a warning message. The check procedure is not stopped. [↑](#footnote-ref-4)
5. [↑](#footnote-ref-5)
6. [↑](#footnote-ref-6)
7. \* This check gives only a warning message. The check procedure is not stopped. [↑](#footnote-ref-7)