

Report of the autumn 2019 Western Baltic cod (*Gadus morhua*) age reading exchange – SD 22

Coordination and analysis: Stefanie Haase and Uwe Krumme (Thünen Institute of Baltic Sea Fisheries, Germany)

SmartDots event ID: 251

- an age reading guide for Western Baltic cod (cod2224) is attached to this document -

Introduction

In spring 2019, a preliminary age reading exercise of Western Baltic cod (*Gadus morhua*) in ICES SD 22 took place (Smartdot event ID 201). One conclusion was to conduct regular otolith exchanges to continuously train age readers.

In autumn 2019 this second age reading comparison was conducted. It included a larger number of otoliths (n=360) covering two different quarters. A total of six age readers from three countries participated. The exchange included sliced otoliths, however, this method is currently only used in Germany. Denmark and Sweden use broken otoliths for aging. This had been already an issue in the previous spring exchange because readers reading broken otoliths are not used to read sliced otoliths.

Recently, McQueen et al. (2019) validated the zone formation of otoliths from juvenile Western Baltic cod (age 0 and age 1), and Krumme et al. (2020) validated the zone formation of both juvenile and young adult Western Baltic cod (age 0 to age 3). Both studies identified a change in the interpretation of the timing of the translucent zone (TZ) formation: the TZ is formed during summer, and not – as previously thought – during winter. Prior to this age reading comparison, McQueen et al. (2019), a manuscript version of Krumme et al. (2020) and a brief instruction for this otolith exchange via Smartdots using sliced otoliths was distributed.

The objectives of the present exchange were to:

- Evaluate the accuracy and precision in age reading of sliced Western Baltic cod otolith (SD 22)
- Train new age readers for this stock
- Identify common error sources in age reading
- Discuss and agree on the next steps to be taken as a form of an online workshop
- After the autumn otolith exchange, an online meeting was conducted on June 3rd 2020 to discuss the results from the exchange with all age readers. Frequent errors and uncertainties in the age readings were highlighted and discussed, the aim being, to support the learning process.

Methods

Overview of samples and readers

Six age readers from three countries participated in the Western Baltic cod otolith exchange in autumn 2019 (Table 1). Two age readers were trained and read Western Baltic cod otoliths for the first time (“basic” expertise). The advanced readers provide the age readings for the stock assessment. All images were from sectioned otoliths; however, most age readers read broken cod otoliths in their routine work.

Table 1: Reader overview.

| Country | Reader code | Expertise | standard method |
|---------|-------------|-----------|-----------------|
| Denmark | R02 DK | Advanced | Broken |
| Germany | R04 DE | Advanced | Sliced |
| Denmark | R06 DK | Advanced | Broken |
| Sweden | R08 SE | Advanced | Broken |
| Sweden | R10 SE | Basic | Broken |
| Sweden | R12 SE | Basic | Broken |

In total, 360 otoliths covering fish lengths between 8 and 100 cm were included in this exchange. Samples covered quarter 1 and 4 and represented samples from the Baltic International Trawl Survey (BITS).

Table 2: Overview of samples used for the Western Baltic cod autumn 2019 exchange.

| Year | ICES area | Quarter | Number of samples | Modal age range | Length range |
|------|-----------|---------|-------------------|-----------------|--------------|
| 2018 | SD 22 | 4 | 155 | 0-8 | 80-1000 mm |
| 2019 | SD 22 | 1 | 205 | 1-7 | 120-880 mm |

Statistical analysis

In the first part of analysis the tables and plots from the Guus Eltink Excel sheet ‘Age Reading Comparisons’ (**Eltink, A.T.G.W. 2000**) are presented. The order and numbering of tables and plots are the same as in the excel sheet. Tables 6.1 - 6.4 from the ‘Age Reading Comparisons’ sheet are not output since these are merely used to do calculations for the other tables.

All statistical analyses were conducted separately for i) all age readers and ii) “advanced” age readers. If a reader was classified “advanced”, the age reader was considered well trained and she/he provides ages for stock assessment or similar purposes. Prior to the age reading comparison, McQueen et al. (2019) and a manuscript version of Krumme et al. (2020), both dealing with validated, sectioned otoliths of Western Baltic cod, were distributed.

The following metrics were determined:

Percentage Agreement

The percentage agreement (PA) is calculated as the ratio between the number of age readings in agreement with the modal age and the total number of age readings for that sample per reader and modal age. The weighted mean is calculated based on the number of age readings.

$$PA = \frac{n_{modalage}}{n_{total}} * 100$$

Co-efficient of Variation (CV)

The CV's are calculated as the ratio between the standard deviation (σ) and mean value (μ) per reader and modal age:

$$CV = \frac{\sigma}{\mu} \cdot 100\%$$

Average Percentage Error (APE)

APE was calculated based on the method outlined by Beamish & Fournier (1981). This method is not independent of fish age and thus provides a better estimate of precision. As the calculations of both CV and APE pose problems if the mean age is close to 0, all observations for which modal age was 0 were omitted from the CV and APE calculations.

The average percentage error is calculated per image as:

$$APE = \frac{100\%}{n} \sum_{i=1}^n \left| \frac{a_i - \bar{a}}{\bar{a}} \right|$$

where a_i is the age reading of reader i and \bar{a} is the mean of all readings from 1 to n .

Age error matrix (AEM)

Age error matrices (AEM) were produced following procedures outlined by WKSABCAL (2014) where the matrix shows the proportion of each modal age mis-aged as other ages. The sum of each row is 1, which equals 100%. The age data was analysed twice, the first time all readers were included and the second time only the "advanced" readers were included. When the AEM is compiled for assessment purposes, it uses only those readers who provide age data for the stock assessment in that specific area.

Results

All readers

The weighted average percentage agreement based on modal ages for all readers was 84 %, with the weighted average CV of 15 % and APE of 6 %.

Table 3: Coefficient of Variation (CV) table presents the CV per modal age and reader, the CV of all readers combined per modal age and a weighted mean of the CV per reader.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE | all |
|----------------------|-------------|------------|-------------|-------------|------------|-------------|-------------|
| 0 | - | - | - | - | - | - | - |
| 1 | 33 % | 38 % | 31 % | 17 % | 17 % | 23 % | 34 % |
| 2 | 11 % | 8 % | 29 % | 17 % | 9 % | 16 % | 18 % |
| 3 | 7 % | 5 % | 23 % | 9 % | 6 % | 11 % | 12 % |
| 4 | 11 % | 5 % | 13 % | 10 % | 8 % | 14 % | 11 % |
| 5 | 6 % | 5 % | 14 % | 12 % | 5 % | 10 % | 10 % |
| 6 | 5 % | 0 % | 8 % | 10 % | 0 % | 7 % | 9 % |
| 7 | 0 % | 0 % | 10 % | 8 % | 0 % | 0 % | 9 % |
| 8 | - | - | - | - | - | - | 5 % |
| Weighted Mean | 11 % | 9 % | 23 % | 12 % | 8 % | 13 % | 15 % |

The percentage agreement per reader per modal age gives the percentage of readings which are equal to the modal age. The weighted mean included at the bottom of the table, is weighted according to number of age readings. At model age 0, the PA calculated across all readers is only 67 %, with two readers having 20 or 0 % agreement. In none of the modal ages was PA above 90 %.

Table 4: Percentage agreement (PA) table represents the PA per modal age and reader, the PA of all readers combined per modal age and a weighted mean of the PA per reader.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE | all |
|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 0 | 20 % | 100 % | 0 % | 94 % | 91 % | 97 % | 67 % |
| 1 | 81 % | 88 % | 41 % | 97 % | 97 % | 94 % | 83 % |
| 2 | 94 % | 97 % | 56 % | 83 % | 97 % | 86 % | 85 % |
| 3 | 96 % | 98 % | 60 % | 93 % | 97 % | 89 % | 89 % |
| 4 | 81 % | 97 % | 73 % | 77 % | 90 % | 81 % | 83 % |
| 5 | 89 % | 93 % | 64 % | 68 % | 93 % | 70 % | 80 % |
| 6 | 91 % | 100 % | 18 % | 45 % | 100 % | 82 % | 73 % |
| 7 | 100 % | 100 % | 0 % | 67 % | 100 % | 100 % | 78 % |
| 8 | 100 % | 100 % | 100 % | 100 % | 0 % | 100 % | 83 % |
| Weighted Mean | 85 % | 97 % | 51 % | 86 % | 95 % | 87 % | 84 % |

The relative bias is the difference between the mean age (per modal age per reader) and the modal age. A positive bias indicates an overestimation of age compared to the modal age. As for the previous tables, a combined bias for all readers and weighted means were calculated. While modal ages 0-3 showed an overestimation of age compared to the modal age, modal age 7 and 8 showed an underestimation of age compared to the modal age.

Table 5: Relative bias table represents the relative bias per modal age per reader, the relative bias of all readers combined per modal age and a weighted mean of the relative bias per reader. Red and blue values indicate positive and negative bias, respectively.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE | all |
|---------------|--------|--------|--------|--------|--------|--------|-------|
| 0 | 0.80 | 0.00 | 1.00 | 0.06 | 0.09 | 0.03 | 0.33 |
| 1 | 0.19 | -0.06 | 0.59 | 0.03 | 0.03 | 0.06 | 0.14 |
| 2 | 0.06 | 0.03 | 0.26 | 0.17 | -0.03 | 0.14 | 0.10 |
| 3 | 0.00 | 0.01 | -0.17 | 0.07 | -0.01 | 0.00 | -0.02 |
| 4 | 0.06 | -0.03 | -0.20 | 0.23 | -0.03 | -0.03 | 0.00 |
| 5 | 0.11 | -0.07 | -0.04 | 0.39 | -0.07 | 0.15 | 0.08 |
| 6 | 0.09 | 0.00 | -0.82 | 0.64 | 0.00 | 0.00 | -0.02 |
| 7 | 0.00 | 0.00 | -1.33 | 0.33 | 0.00 | 0.00 | -0.17 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | -1.00 | 0.00 | -0.17 |
| Weighted Mean | 0.12 | -0.01 | 0.08 | 0.14 | -0.01 | 0.04 | 0.06 |

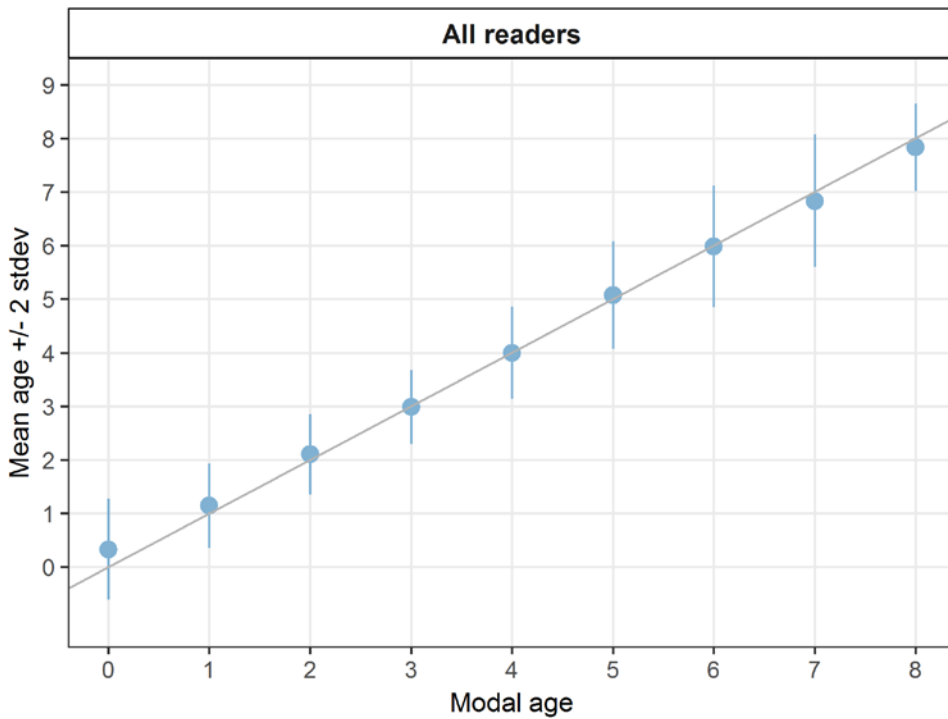


Figure 1: Age bias plot for all readers. Mean age recorded +/- 2 stdev of each reader and all readers combined are plotted against modal age. The estimated mean age corresponds to modal age, if the estimated mean age is on the 1:1 equilibrium line (solid line). Relative bias is the age difference between estimated mean age and modal age. Individual reader age biases can be found in the annex (Fig. 6).

Table 6: Between-reader bias test. This Between-reader bias test gives the probability of bias between readers and with modal age. - = no sign of bias ($p>0.05$), * = possibility of bias ($0.01<p<0.05$), * * = certainty of bias ($p<0.01$)

| Comparison | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE |
|------------|--------|--------|--------|--------|--------|--------|
| R02 DK | - | ** | - | - | ** | ** |
| R04 DE | ** | - | - | ** | - | * |
| R06 DK | - | - | - | - | - | - |
| R08 SE | - | ** | - | - | ** | ** |
| R10 SE | ** | - | - | ** | - | * |
| R12 SE | ** | * | - | ** | * | - |
| Modal age | ** | - | - | ** | - | * |

Results by strata

Advanced readers

The weighted average percentage agreement based on modal ages for all readers was 81 %, with the weighted average CV of 17 % and APE of 8 %.

Table 7: Coefficient of Variation (CV) table presents the CV per modal age and advanced reader, the CV of all advanced readers combined per modal age and a weighted mean of the CV per reader.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | all |
|----------------------|-------------|-------------|-------------|-------------|-------------|
| 0 | - | - | - | - | - |
| 1 | 33 % | 42 % | 32 % | 17 % | 39 % |
| 2 | 6 % | 6 % | 29 % | 17 % | 19 % |
| 3 | 10 % | 7 % | 23 % | 13 % | 14 % |
| 4 | 9 % | 5 % | 12 % | 10 % | 10 % |
| 5 | 5 % | 5 % | 14 % | 10 % | 10 % |
| 6 | 0 % | 0 % | 8 % | 11 % | 11 % |
| 7 | 0 % | 7 % | 10 % | 7 % | 12 % |
| 8 | - | - | - | - | 0 % |
| Weighted Mean | 11 % | 10 % | 23 % | 14 % | 17 % |

Table 8: Percentage agreement (PA) table represents the PA per modal age and reader, advanced the PA of all advanced readers combined per modal age and a weighted mean of the PA per reader.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | all |
|----------------------|-------------|-------------|-------------|-------------|--------------|
| 0 | 21 % | 100 % | 0 % | 97 % | 54 % |
| 1 | 82 % | 85 % | 42 % | 97 % | 77 % |
| 2 | 99 % | 99 % | 56 % | 85 % | 85 % |
| 3 | 96 % | 96 % | 60 % | 92 % | 86 % |
| 4 | 86 % | 97 % | 79 % | 79 % | 85 % |
| 5 | 93 % | 93 % | 64 % | 71 % | 80 % |
| 6 | 100 % | 100 % | 20 % | 50 % | 68 % |
| 7 | 100 % | 75 % | 0 % | 75 % | 62 % |
| 8 | 100 % | 100 % | 100 % | 100 % | 100 % |
| Weighted Mean | 87 % | 96 % | 52 % | 88 % | 81 % |

Table 9: Relative bias table represents the relative bias per modal age and advanced reader, the relative bias of all advanced readers combined per modal age and a weighted mean of the relative bias per reader. Red and blue values indicate positive and negative bias, respectively.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | all |
|----------------------|-------------|--------------|-------------|-------------|-------------|
| 0 | 0.79 | 0.00 | 1.00 | 0.03 | 0.46 |
| 1 | 0.18 | -0.09 | 0.58 | 0.03 | 0.17 |
| 2 | 0.01 | 0.01 | 0.25 | 0.15 | 0.11 |
| 3 | 0.03 | 0.01 | -0.17 | 0.10 | -0.01 |
| 4 | 0.07 | -0.03 | -0.14 | 0.21 | 0.02 |
| 5 | 0.07 | -0.07 | -0.04 | 0.32 | 0.07 |
| 6 | 0.00 | 0.00 | -0.80 | 0.60 | -0.05 |
| 7 | 0.00 | -0.25 | -1.50 | 0.25 | -0.38 |
| 8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Weighted Mean | 0.12 | -0.01 | 0.07 | 0.14 | 0.08 |

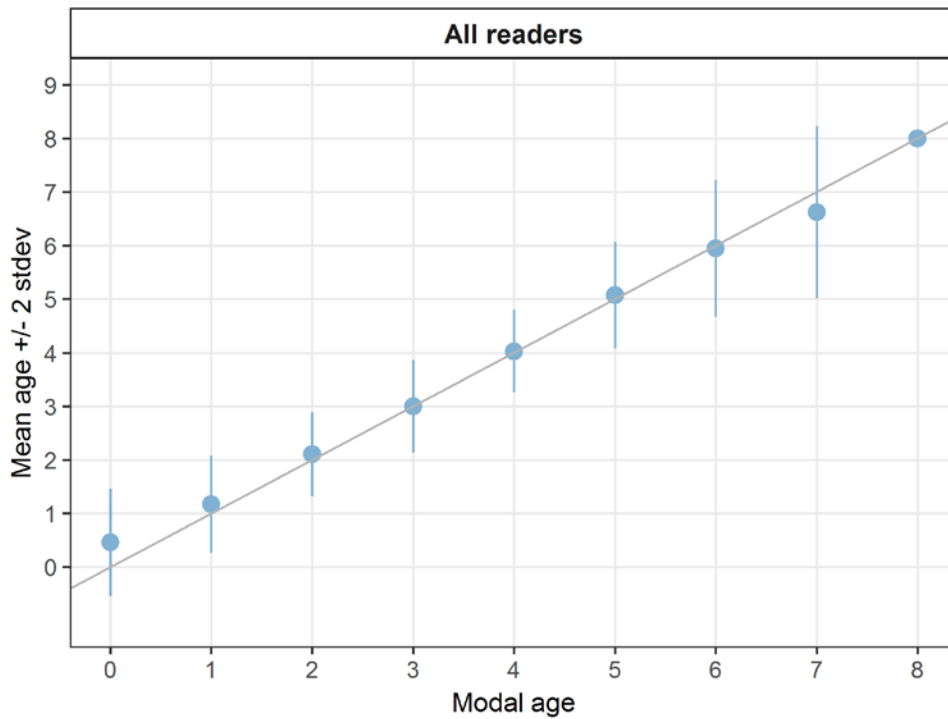


Figure 2: Age bias plot for advanced readers. Individual reader age biases can be found in the annex (Fig. 6).

Age error matrices were calculated per area and only based on the age readings of the advanced readers.

Table 10: Age error matrix (AEM) for cod2224. The AEM shows the proportional distribution of age readings for each modal age. Age column should sum to one but due to rounding there might be small deviations in some cases. Only advanced readers were used for calculating the AEM.

| Modal age | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-----------|------|------|-------|-------|------|------|------|------|---|
| Age 0 | 0.54 | 0.03 | - | - | - | - | - | - | - |
| Age 1 | 0.46 | 0.77 | 0.03 | 0.002 | - | - | - | - | - |
| Age 2 | - | 0.20 | 0.85 | 0.07 | - | - | - | - | - |
| Age 3 | - | - | 0.130 | 0.86 | 0.06 | 0.01 | - | - | - |
| Age 4 | - | - | 0.004 | 0.06 | 0.85 | 0.05 | - | - | - |
| Age 5 | - | - | - | 0.002 | 0.09 | 0.80 | 0.20 | 0.13 | - |
| Age 6 | - | - | - | 0.002 | - | 0.13 | 0.68 | 0.19 | - |
| Age 7 | - | - | - | 0.002 | - | 0.01 | 0.10 | 0.63 | - |
| Age 8 | - | - | - | - | - | - | 0.03 | 0.06 | 1 |

Discussion

Since the last age reading comparison in spring 2019 the uncertainties and national differences in age interpretation of Western Baltic cod in SD 22 continue. Modal age 0, 6 and 7 showed particularly low PAs but also other modal ages did not show PAs above 89 %. An average PA of 81 % and a CV of 17 % for advanced readers is not satisfactory for a stock for which otolith age reading is validated and considered relatively clear and easy. However, it has to be kept in mind that Sweden and Denmark do not read sliced otoliths on a routine basis, which were used for this and the previous exchange and readers might therefore have been less trained in reading sliced otoliths. Moreover, Swedish age readers usually do not read cod otoliths from SD22 because Sweden is not fishing in SD22 and also is not involved in surveys in SD22.

We can highlight that the basic age readers performed particularly well and participation in future exchanges is encouraged.

This exchange is now closed in SmartDots and can be used for further training purposes because all readers' annotations are now visible for comparisons. Tables 11 and 15 give an overview about the individual readers' ages, PA, CV and APE per sample ID.

Examples of main discrepancies in age interpretation

Discrepancies in age determination can be categorized into three error sources:

1. Misinterpretation of the first translucent summer ring:

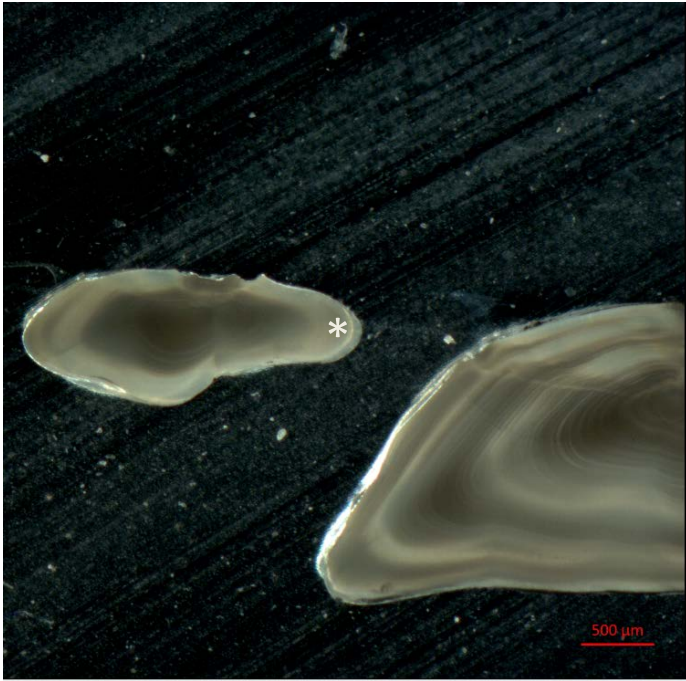


Figure 3: Otolith of a 12 cm cod caught on 8.11.2018 (FishID: 2, age: 0). Image taken using transmitted light. Star indicates first translucent summer ring.

The first ring in the otolith of Figure 3 is a translucent summer ring. Since it was recaptured in November, this 12 cm fish was age 0. The diameter of the first translucent ring is slightly larger than 2 mm. If the translucent ring had been considered a winter ring, this otolith would have been mis-classified as an age-1 cod.

2. Misinterpretation of the edge zone/ not accounting for recapture month



Figure 4: Otolith of a 42 cm cod caught on 9.11.2018 (FishID: 5, age: 2). Image taken using transmitted light. Stars indicate translucent summer rings.

The first translucent ring of the otolith in Figure 4 is a summer ring. This fish had experienced three summers and was recaptured in November; hence, it was age 2.

3. Counting of double rings



Figure 5: Otolith of a 64 cm cod caught on 24.10.2018 (FishID: 144, age: 5). Image taken using transmitted light. Stars indicate translucent summer rings.

The first translucent ring in the otolith of Figure 5 should not be counted as two separate rings. The double ring merges into the single ring in the lower part of the ring. Moreover, given the relatively fast growth of juvenile cod, it is unrealistic that a second ring is formed so close to the first ring, especially given the distance to the translucent ring of the second summer. Since it was recaptured in October, this 64 cm cod was age 5.

Outlook

During the online meeting with age readers and national age reading coordinators several decisions were taken:

1. Regular otolith exchanges of sliced otoliths of Western Baltic cod will be continued.
2. The next exercise will take place in autumn 2020 and involve a selection of potentially incorrectly read otoliths from the BITS of the years between 2017 and 2019 (SD22 and 23) which may have led to discrepancies in the Western Baltic cod stock assessment in 2020. The results will be discussed in an online meeting in January 2021. Using SmartDots, DTU-Aqua will take the lead in this exercise.
3. It was highlighted that it is too late to thoroughly compare – and potentially correct - the national ageing results from the surveys (BITS) and the commercial samplings after the annual data upload in March to InterCatch (or in the future to the RDBES). Therefore, short- and mid-term steps were discussed to overcome this shortcoming of the present ICES procedure.

- a. Commercial sampling: Ageing results from Q1 will be send around among countries during each summer to assess (dis-)similarities. The Thünen Institute will prepare and circulate a template using the age-length distribution of the Q1 2020 data from SD22. This will ensure that the format is consistent among countries.
 - b. Survey data: The Thünen Institute will continue to send around a short report of the age reading results shortly after each German Q1 and Q4 BITS.
4. The countries agreed that images of dubious otoliths should be send to other members of the group at any time.
5. In case it is considered helpful, the Thünen Institute offered to assist other labs by slicing up to 1000 Western Baltic cod otoliths per year.
6. Danish age readers had conducted an age reading comparison between broken and sliced otolith with the result of higher accuracy when reading sliced otolith (see uploaded report on the SmartDots webpage; event ID 269 and 270). After the online meeting, DTU-Aqua (Denmark) informed that they took the decision that Western Baltic cod otoliths will be sliced from 1. January 2020 onwards. This will hopefully increase the quality of the age readings and thus improve the input data for the stock assessment of Western Baltic cod.
7. The Thünen Institute compiled an age reading guide which can be found at the end of this document.

References

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Results all readers

Data Overview

Table 11: Data overview including modal age and statistics per sample.

| Fish ID | Event ID | Sample ID | length | sex | Catch date | ICES area | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE | Modal age | PA % | CV % | APE % |
|---------|----------|------------------|--------|-----|------------------------|-----------|--------|--------|--------|--------|--------|--------|-----------|------|------|-------|
| 1 | 251 | S756_2018_22_001 | 580 | - | 08/11/2018 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 2 | 251 | S756_2018_22_003 | 120 | - | 08/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 83 | - | - |
| 3 | 251 | S756_2018_22_005 | 180 | - | 08/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 4 | 251 | S756_2018_22_007 | 120 | - | 08/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 83 | - | - |
| 5 | 251 | S756_2018_22_009 | 420 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 50 | 22 | 20 |
| 6 | 251 | S756_2018_22_010 | 420 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 50 | 22 | 20 |
| 7 | 251 | S756_2018_22_011 | 200 | - | 09/11/2018 00:00:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 8 | 251 | S756_2018_22_012 | 310 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 83 | 22 | 15 |
| 9 | 251 | S756_2018_22_013 | 300 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 10 | 251 | S756_2018_22_023 | 290 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 11 | 251 | S756_2018_22_024 | 310 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 12 | 251 | S756_2018_22_026 | 280 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 3 | 2 | 83 | 19 | 13 |
| 13 | 251 | S756_2018_22_030 | 220 | - | 10/11/2018 00:00:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 14 | 251 | S756_2018_22_031 | 410 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 83 | 19 | 13 |
| 15 | 251 | S756_2018_22_036 | 280 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 16 | 251 | S756_2018_22_039 | 620 | - | 11/11/2018 00:00:00 | 27.3.d | 2 | 2 | 4 | 3 | 2 | 3 | 2 | 50 | 31 | 25 |
| 17 | 251 | S756_2018_22_042 | 430 | - | 11/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 3 | 2 | 67 | 22 | 19 |
| 18 | 251 | S756_2018_22_044 | 670 | - | 11/11/2018 00:00:00 | 27.3.d | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 83 | 8 | 6 |
| 19 | 251 | S756_2018_22_051 | 100 | - | 11/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| 20 | 251 | S756_2018_22_055 | 110 | - | 11/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| 21 | 251 | S756_2018_22_059 | 180 | - | 11/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| 22 | 251 | S756_2018_22_067 | 80 | - | 11/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 83 | - | - |
| 23 | 251 | S756_2018_22_068 | 90 | - | 11/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 83 | - | - |
| 24 | 251 | S760_2019_22_001 | 880 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 25 | 251 | S760_2019_22_002 | 720 | - | 19/02/2019 00:00:00 | 27.3.d | 4 | 4 | 5 | 4 | 4 | 4 | 4 | 83 | 10 | 7 |

| | | | | | | | | | | | | | | | | |
|----|-----|------------------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 26 | 251 | S760_2019_22_003 | 690 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 67 | 15 | 13 |
| 27 | 251 | S760_2019_22_004 | 680 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 5 | 5 | - | 5 | 80 | 9 | 6 |
| 28 | 251 | S760_2019_22_005 | 630 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 5 | 4 | 3 | 4 | 3 | 50 | 22 | 18 |
| 29 | 251 | S760_2019_22_007 | 580 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 30 | 251 | S760_2019_22_008 | 630 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 31 | 251 | S760_2019_22_009 | 570 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 83 | 13 | 9 |
| 32 | 251 | S760_2019_22_010 | 510 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 83 | 13 | 9 |
| 33 | 251 | S760_2019_22_011 | 540 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 4 | 3 | 4 | 4 | 4 | 4 | 67 | 14 | 12 |
| 34 | 251 | S760_2019_22_014 | 600 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 35 | 251 | S760_2019_22_015 | 510 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 4 | 4 | 5 | 4 | 4 | 4 | 67 | 12 | 10 |
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| 37 | 251 | S760_2019_22_017 | 500 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 4 | 3 | 67 | 15 | 13 |
| 38 | 251 | S760_2019_22_019 | 490 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 39 | 251 | S760_2019_22_020 | 630 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 40 | 251 | S760_2019_22_021 | 620 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 4 | 4 | 5 | 4 | 6 | 4 | 50 | 17 | 14 |
| 41 | 251 | S760_2019_22_024 | 590 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 42 | 251 | S760_2019_22_025 | 580 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 43 | 251 | S760_2019_22_027 | 670 | - | 19/02/2019 00:00:00 | 27.3.d | 4 | 4 | 4 | 5 | 4 | 5 | 4 | 67 | 12 | 10 |
| 44 | 251 | S760_2019_22_030 | 530 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 45 | 251 | S760_2019_22_031 | 500 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | - | 3 | 100 | 0 | 0 |
| 46 | 251 | S760_2019_22_034 | 520 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 47 | 251 | S760_2019_22_035 | 490 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 48 | 251 | S760_2019_22_041 | 420 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
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| 50 | 251 | S760_2019_22_045 | 410 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 83 | 14 | 10 |
| 51 | 251 | S760_2019_22_047 | 400 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 52 | 251 | S760_2019_22_050 | 390 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | - | 3 | 80 | 16 | 11 |
| 53 | 251 | S760_2019_22_051 | 420 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 4 | 3 | 83 | 13 | 9 |
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| | | | | | | | | | | | | | | | | |
|----|-----|------------------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 55 | 251 | S760_2019_22_062 | 330 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 67 | 19 | 17 |
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| 61 | 251 | S760_2019_22_110 | 210 | - | 20/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | - | 1 | 80 | 37 | 27 |
| 62 | 251 | S760_2019_22_172 | 790 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 6 | 5 | 6 | 5 | 50 | 10 | 9 |
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| 64 | 251 | S760_2019_22_175 | 710 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 65 | 251 | S760_2019_22_176 | 720 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 6 | 5 | 6 | 5 | 50 | 10 | 9 |
| 66 | 251 | S760_2019_22_390 | 170 | - | 21/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 67 | 251 | S760_2019_22_394 | 180 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 68 | 251 | S760_2019_22_407 | 220 | - | 22/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 69 | 251 | S760_2019_22_408 | 210 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 70 | 251 | S760_2019_22_409 | 190 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | - | 1 | 1 | 80 | 37 | 27 |
| 71 | 251 | S760_2019_22_412 | 140 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 72 | 251 | S760_2019_22_413 | 760 | - | 22/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 5 | 5 | 6 | 5 | 67 | 10 | 8 |
| 73 | 251 | S760_2019_22_419 | 210 | - | 22/02/2019 00:00:00 | 27.3.d | 2 | 1 | 2 | 1 | 1 | 2 | 1 | 50 | 37 | 33 |
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| 75 | 251 | S760_2019_22_423 | 690 | - | 23/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
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| 78 | 251 | 7802556 | 330 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 84 | 251 | 7802562 | 290 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 83 | 22 | 15 |
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| 108 | 251 | 7802894 | 340 | - | 24/10/2018 06:41:00 | 27.3.d | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 50 | 37 | 33 |
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|-----|-----|---------|------|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 113 | 251 | 7802899 | 460 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 67 | 22 | 19 |
| 114 | 251 | 7802900 | 410 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 2 | 2 | 83 | 19 | 13 |
| 115 | 251 | 7802901 | 390 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
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| 122 | 251 | 7803189 | 940 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 83 | 7 | 5 |
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| 125 | 251 | 7803192 | 1000 | - | 24/10/2018 14:55:00 | 27.3.d | 8 | 8 | 8 | 8 | 7 | 8 | 8 | 83 | 5 | 4 |
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| 127 | 251 | 7803194 | 950 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 83 | 7 | 5 |
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| 130 | 251 | 7803197 | 720 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
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| 132 | 251 | 7803199 | 780 | - | 24/10/2018 14:55:00 | 27.3.d | 7 | 6 | 5 | 7 | 6 | 6 | 6 | 50 | 12 | 9 |
| 133 | 251 | 7803200 | 760 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
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| 137 | 251 | 7803204 | 590 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 3 | 4 | 67 | 14 | 12 |
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| 139 | 251 | 7803206 | 360 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 142 | 251 | 7803209 | 300 | - | 24/10/2018 14:55:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 143 | 251 | 7803210 | 530 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 4 | 4 | 83 | 11 | 7 |
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| 145 | 251 | 7803212 | 700 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 5 | 4 | 4 | 4 | 83 | 10 | 7 |
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| 157 | 251 | 7803223 | 620 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 158 | 251 | 7803224 | 600 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 159 | 251 | 7803225 | 630 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
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| 167 | 251 | 7803233 | 310 | - | 24/10/2018 14:55:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
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| 172 | 251 | 7806841 | 280 | - | 30/10/2018 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
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| 173 | 251 | 7806842 | 260 | - | 30/10/2018 | 27.3.d | 2 | 2 | 2 | 2 | 1 | 2 | 2 | 83 | 22 | 15 |
| | | | | | 10:13:00 | | | | | | | | | | | |
| 174 | 251 | 7806843 | 130 | - | 30/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 10:13:00 | | | | | | | | | | | |
| 175 | 251 | 7806844 | 850 | - | 30/10/2018 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 08:23:00 | | | | | | | | | | | |
| 176 | 251 | 7806686 | 490 | - | 30/10/2018 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 67 | 22 | 19 |
| | | | | | 08:23:00 | | | | | | | | | | | |
| 177 | 251 | 7806687 | 320 | - | 30/10/2018 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| | | | | | 08:23:00 | | | | | | | | | | | |
| 178 | 251 | 7806688 | 260 | - | 30/10/2018 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 83 | 22 | 15 |
| | | | | | 08:23:00 | | | | | | | | | | | |
| 179 | 251 | 7806689 | 690 | - | 30/10/2018 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 180 | 251 | 7806465 | 300 | - | 30/10/2018 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 83 | 22 | 15 |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 181 | 251 | 7806466 | 310 | - | 30/10/2018 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 182 | 251 | 7806467 | 270 | - | 30/10/2018 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 83 | 22 | 15 |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 183 | 251 | 7806468 | 290 | - | 30/10/2018 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 83 | 22 | 15 |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 184 | 251 | 7806469 | 280 | - | 30/10/2018 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 83 | 22 | 15 |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 185 | 251 | 7806470 | 170 | - | 30/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 186 | 251 | 7806471 | 150 | - | 30/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 187 | 251 | 7806472 | 150 | - | 30/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 188 | 251 | 7806473 | 160 | - | 30/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:24:00 | | | | | | | | | | | |
| 189 | 251 | 7806474 | 170 | - | 29/10/2018 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 83 | - | - |
| | | | | | 07:53:00 | | | | | | | | | | | |
| 190 | 251 | 7806128 | 180 | - | 29/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:05:00 | | | | | | | | | | | |
| 191 | 251 | 7805939 | 150 | - | 29/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:05:00 | | | | | | | | | | | |
| 192 | 251 | 7805940 | 390 | - | 28/10/2018 | 27.3.d | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 83 | 19 | 13 |
| | | | | | 12:25:00 | | | | | | | | | | | |
| 193 | 251 | 7805758 | 170 | - | 28/10/2018 | 27.3.d | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 67 | 39 | 33 |
| | | | | | 13:27:00 | | | | | | | | | | | |
| 194 | 251 | 7805562 | 160 | - | 28/10/2018 | 27.3.d | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 50 | - | - |
| | | | | | 10:41:00 | | | | | | | | | | | |
| 195 | 251 | 7805356 | 640 | - | 28/10/2018 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 67 | 22 | 19 |
| | | | | | 09:12:00 | | | | | | | | | | | |
| 196 | 251 | 7805199 | 210 | - | 28/10/2018 | 27.3.d | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 09:12:00 | | | | | | | | | | | |
| 197 | 251 | 7805200 | 310 | - | 28/10/2018 | 27.3.d | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 83 | 49 | 33 |
| | | | | | 06:41:00 | | | | | | | | | | | |
| 198 | 251 | 7804982 | 150 | - | 27/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 12:00:00 | | | | | | | | | | | |
| 199 | 251 | 7804870 | 160 | - | 27/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 50 | - | - |
| | | | | | 12:00:00 | | | | | | | | | | | |
| 200 | 251 | 7804871 | 170 | - | 27/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 12:00:00 | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 201 | 251 | 7804872 | 190 | - | 27/10/2018 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 83 | - | - |
| | | | | | 12:00:00 | | | | | | | | | | | |
| 202 | 251 | 7804873 | 190 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 11:53:00 | | | | | | | | | | | |
| 203 | 251 | 7808502 | 180 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 11:53:00 | | | | | | | | | | | |
| 204 | 251 | 7808503 | 160 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 11:53:00 | | | | | | | | | | | |
| 205 | 251 | 7808504 | 180 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 11:53:00 | | | | | | | | | | | |
| 206 | 251 | 7808505 | 160 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 11:53:00 | | | | | | | | | | | |
| 207 | 251 | 7808506 | 160 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 09:40:00 | | | | | | | | | | | |
| 208 | 251 | 7808351 | 170 | - | 01/11/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 07:26:00 | | | | | | | | | | | |
| 209 | 251 | 7808249 | 150 | - | 31/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:14:00 | | | | | | | | | | | |
| 210 | 251 | 7807451 | 160 | - | 31/10/2018 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 67 | - | - |
| | | | | | 06:14:00 | | | | | | | | | | | |
| 211 | 251 | 7807452 | 650 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 212 | 251 | 7895905 | 710 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 213 | 251 | 7895906 | 690 | - | 28/02/2019 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 83 | 7 | 5 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 214 | 251 | 7895907 | 510 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 83 | 8 | 6 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 215 | 251 | 7895908 | 780 | - | 28/02/2019 | 27.3.d | 7 | 7 | 6 | 8 | 7 | 7 | 7 | 67 | 9 | 5 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 216 | 251 | 7895909 | 680 | - | 28/02/2019 | 27.3.d | 6 | 5 | 5 | 7 | 5 | 4 | 5 | 50 | 19 | 15 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 217 | 251 | 7895910 | 530 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 218 | 251 | 7895911 | 560 | - | 28/02/2019 | 27.3.d | 3 | 4 | 4 | 4 | 5 | 3 | 4 | 50 | 20 | 14 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 219 | 251 | 7895912 | 490 | - | 28/02/2019 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 220 | 251 | 7895913 | 550 | - | 28/02/2019 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 221 | 251 | 7895914 | 590 | - | 28/02/2019 | 27.3.d | 6 | 5 | 5 | 6 | 5 | 6 | 5 | 50 | 10 | 9 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 222 | 251 | 7895915 | 480 | - | 28/02/2019 | 27.3.d | 4 | 3 | 4 | 3 | 3 | 3 | 3 | 67 | 15 | 13 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 223 | 251 | 7895916 | 540 | - | 28/02/2019 | 27.3.d | 5 | 4 | 5 | 6 | 4 | 5 | 5 | 50 | 16 | 11 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 224 | 251 | 7895917 | 600 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 225 | 251 | 7895918 | 760 | - | 28/02/2019 | 27.3.d | 6 | 6 | 6 | 7 | 6 | 6 | 6 | 83 | 7 | 5 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 226 | 251 | 7895919 | 660 | - | 28/02/2019 | 27.3.d | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 83 | 6 | 4 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 227 | 251 | 7895920 | 700 | - | 28/02/2019 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 83 | 7 | 5 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 228 | 251 | 7895921 | 670 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |
| 229 | 251 | 7895922 | 640 | - | 28/02/2019 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| | | | | | 14:27:21 | | | | | | | | | | | |

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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 230 | 251 | 7895923 | 610 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 231 | 251 | 7895924 | 520 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 83 | 13 | 9 |
| 232 | 251 | 7895925 | 420 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 233 | 251 | 7895926 | 570 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 234 | 251 | 7895927 | 480 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 235 | 251 | 7895928 | 450 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 236 | 251 | 7895929 | 820 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 6 | 6 | 83 | 7 | 5 |
| 237 | 251 | 7895930 | 580 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 83 | 8 | 6 |
| 238 | 251 | 7895931 | 630 | - | 28/02/2019 14:27:21 | 27.3.d | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 83 | 12 | 8 |
| 239 | 251 | 7895932 | 620 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 240 | 251 | 7895933 | 420 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 241 | 251 | 7895934 | 400 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 242 | 251 | 7895935 | 350 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 243 | 251 | 7895936 | 390 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 244 | 251 | 7895937 | 320 | - | 28/02/2019 14:27:21 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 245 | 251 | 7895938 | 310 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 246 | 251 | 7895939 | 290 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 247 | 251 | 7895940 | 280 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 50 | 22 | 20 |
| 248 | 251 | 7895941 | 550 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 249 | 251 | 7896061 | 580 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 250 | 251 | 7896062 | 560 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 251 | 251 | 7896063 | 570 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 252 | 251 | 7896064 | 500 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 253 | 251 | 7896065 | 600 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 67 | 15 | 13 |
| 254 | 251 | 7896066 | 540 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 255 | 251 | 7896067 | 470 | - | 01/03/2019 06:27:20 | 27.3.d | - | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 256 | 251 | 7896068 | 450 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 257 | 251 | 7896069 | 490 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 258 | 251 | 7896070 | 480 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |

| | | | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 259 | 251 | 7896071 | 530 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 260 | 251 | 7896072 | 440 | - | 01/03/2019 06:27:20 | 27.3.d | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 261 | 251 | 7896073 | 510 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 262 | 251 | 7896074 | 520 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 263 | 251 | 7896075 | 460 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 264 | 251 | 7896076 | 400 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 265 | 251 | 7896077 | 380 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 266 | 251 | 7896078 | 420 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 267 | 251 | 7896079 | 340 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 268 | 251 | 7896080 | 360 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 67 | 21 | 11 |
| 269 | 251 | 7896081 | 350 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 270 | 251 | 7896082 | 390 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 271 | 251 | 7896083 | 370 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 272 | 251 | 7896084 | 430 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 273 | 251 | 7896085 | 310 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 274 | 251 | 7896086 | 330 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 67 | 19 | 17 |
| 275 | 251 | 7896087 | 410 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 276 | 251 | 7896088 | 300 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 277 | 251 | 7896089 | 320 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 67 | 19 | 17 |
| 278 | 251 | 7896090 | 520 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 279 | 251 | 7896562 | 510 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 280 | 251 | 7896563 | 470 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | - | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 281 | 251 | 7896564 | 480 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 282 | 251 | 7896565 | 340 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 283 | 251 | 7896566 | 430 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 83 | 13 | 9 |
| 284 | 251 | 7896567 | 420 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 285 | 251 | 7896568 | 440 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 286 | 251 | 7896569 | 410 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 287 | 251 | 7896570 | 390 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |

| | | | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 288 | 251 | 7896571 | 380 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 289 | 251 | 7896572 | 330 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 4 | 2 | 3 | 3 | 50 | 27 | 20 |
| 290 | 251 | 7896573 | 370 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 291 | 251 | 7896574 | 360 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 292 | 251 | 7896575 | 450 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 293 | 251 | 7896576 | 350 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 294 | 251 | 7896577 | 260 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | - | 3 | 2 | 2 | 3 | 60 | 21 | 18 |
| 295 | 251 | 7896578 | 310 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 296 | 251 | 7896579 | 300 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 297 | 251 | 7896580 | 320 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 298 | 251 | 7896581 | 290 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 299 | 251 | 7896582 | 280 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 300 | 251 | 7896583 | 270 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 2 | 2 | 2 | 50 | 22 | 20 |
| 301 | 251 | 7896584 | 510 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | - | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 302 | 251 | 7896815 | 490 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 303 | 251 | 7896816 | 450 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 304 | 251 | 7896817 | 600 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 305 | 251 | 7896818 | 460 | - | 02/03/2019 06:57:32 | 27.3.d | 4 | 3 | 3 | 4 | 3 | 4 | 3 | 50 | 16 | 14 |
| 306 | 251 | 7896819 | 620 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 307 | 251 | 7896820 | 470 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 308 | 251 | 7896821 | 440 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 309 | 251 | 7896822 | 410 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 310 | 251 | 7896823 | 340 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 311 | 251 | 7896824 | 370 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 312 | 251 | 7896825 | 400 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 313 | 251 | 7896826 | 350 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 314 | 251 | 7896827 | 560 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | - | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 316 | 251 | 7896828 | 430 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | - | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 317 | 251 | 7896829 | 460 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |

| | | | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 318 | 251 | 7896830 | 390 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 319 | 251 | 7896831 | 500 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 320 | 251 | 7896832 | 420 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 321 | 251 | 7896833 | 380 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 322 | 251 | 7896834 | 330 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 323 | 251 | 7896835 | 310 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 324 | 251 | 7896836 | 360 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 67 | 19 | 17 |
| 327 | 251 | 7896837 | 280 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 1 | 3 | 3 | 3 | 3 | 83 | 31 | 21 |
| 328 | 251 | 7896838 | 320 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 67 | 19 | 17 |
| 329 | 251 | 7896839 | 660 | - | 02/03/2019 10:16:07 | 27.3.d | 4 | 4 | - | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 330 | 251 | 7896840 | 470 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 331 | 251 | 7896841 | 500 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 332 | 251 | 7896842 | 480 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 333 | 251 | 7897089 | 430 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 334 | 251 | 7897090 | 440 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 335 | 251 | 7897091 | 460 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 83 | 13 | 9 |
| 336 | 251 | 7897092 | 410 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 3 | 3 | 83 | 13 | 9 |
| 337 | 251 | 7897093 | 400 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 338 | 251 | 7897094 | 390 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 339 | 251 | 7897095 | 510 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 340 | 251 | 7897096 | 450 | - | 02/03/2019 10:16:07 | 27.3.d | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 341 | 251 | 7897097 | 380 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 342 | 251 | 7897098 | 420 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 343 | 251 | 7897099 | 370 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 344 | 251 | 7897100 | 360 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 345 | 251 | 7897101 | 320 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 346 | 251 | 7897102 | 330 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 347 | 251 | 7897103 | 340 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 348 | 251 | 7897104 | 310 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |

| | | | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|---|---|-----|----|----|
| 349 | 251 | 7897105 | 300 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 350 | 251 | 7897106 | 210 | - | 04/03/2019 08:27:43 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 351 | 251 | 7897107 | 120 | - | 04/03/2019 13:00:05 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 352 | 251 | 7897108 | 130 | - | 04/03/2019 13:00:05 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 353 | 251 | 7897109 | 150 | - | 04/03/2019 13:00:05 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 354 | 251 | 7897817 | 170 | - | 04/03/2019 15:03:42 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 356 | 251 | 7898125 | 760 | - | 07/03/2019 13:13:19 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 3 | 3 | 83 | 13 | 9 |
| 357 | 251 | 7898126 | 600 | - | 07/03/2019 13:13:19 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 4 | 3 | 50 | 16 | 14 |
| 358 | 251 | 7898127 | 760 | - | 07/03/2019 13:13:19 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 67 | 15 | 13 |
| 359 | 251 | 7898209 | 170 | - | 07/03/2019 13:13:19 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 360 | 251 | 7898645 | 180 | - | 07/03/2019 13:13:19 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 361 | 251 | 7899237 | 150 | - | 07/03/2019 13:13:19 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |
| 362 | 251 | 7899238 | 710 | - | 07/03/2019 10:52:25 | 27.3.d | 4 | 3 | 4 | 4 | 3 | 4 | 4 | 67 | 14 | 12 |
| 363 | 251 | 7899239 | 850 | - | 07/03/2019 10:52:25 | 27.3.d | 6 | 6 | 5 | 8 | 6 | 6 | 6 | 67 | 16 | 10 |
| 364 | 251 | 7899240 | 280 | - | 07/03/2019 10:52:25 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 83 | 14 | 10 |
| 365 | 251 | 7899241 | 160 | - | 07/03/2019 10:52:25 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 83 | 35 | 24 |

Table 12: Number of age readings table gives an overview of number of readings per reader and modal age. The total numbers of readings per reader and per modal age are summarized at the end of the table.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE | total |
|--------------|------------|------------|------------|------------|------------|------------|-------------|
| 0 | 35 | 35 | 35 | 35 | 35 | 35 | 210 |
| 1 | 32 | 32 | 32 | 32 | 31 | 31 | 190 |
| 2 | 70 | 70 | 70 | 70 | 70 | 70 | 420 |
| 3 | 148 | 149 | 144 | 149 | 149 | 147 | 886 |
| 4 | 31 | 31 | 30 | 31 | 31 | 31 | 185 |
| 5 | 28 | 28 | 28 | 28 | 28 | 27 | 167 |
| 6 | 11 | 11 | 11 | 11 | 11 | 11 | 66 |
| 7 | 3 | 3 | 3 | 3 | 3 | 3 | 18 |
| 8 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Total | 359 | 360 | 354 | 360 | 359 | 356 | 2148 |

Table 13: Age composition by reader gives a summary of number of readings per reader.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE |
|--------------|------------|------------|------------|------------|------------|------------|
| 0 | 7 | 38 | 0 | 33 | 32 | 34 |
| 1 | 54 | 28 | 56 | 33 | 35 | 30 |
| 2 | 75 | 70 | 98 | 59 | 72 | 70 |
| 3 | 148 | 149 | 117 | 150 | 146 | 145 |
| 4 | 28 | 34 | 43 | 35 | 32 | 35 |
| 5 | 29 | 26 | 30 | 26 | 27 | 21 |
| 6 | 13 | 11 | 9 | 12 | 11 | 16 |
| 7 | 4 | 3 | 0 | 9 | 4 | 4 |
| 8 | 1 | 1 | 1 | 3 | 0 | 1 |
| Total | 359 | 360 | 354 | 360 | 359 | 356 |

Table 14: Mean length at age per reader was calculated per reader and age (not modal age) and for all readers combined per age. A weighted mean is also given.

| Age | R02 DK | R04 DE | R06 DK | R08 SE | R10 SE | R12 SE |
|----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 0 | 140 mm | 163 mm | - | 154 mm | 153 mm | 155 mm |
| 1 | 185 mm | 210 mm | 192 mm | 206 mm | 210 mm | 212 mm |
| 2 | 362 mm | 374 mm | 307 mm | 359 mm | 374 mm | 352 mm |
| 3 | 435 mm | 436 mm | 459 mm | 429 mm | 442 mm | 443 mm |
| 4 | 635 mm | 616 mm | 636 mm | 607 mm | 614 mm | 612 mm |
| 5 | 663 mm | 681 mm | 709 mm | 663 mm | 679 mm | 668 mm |
| 6 | 776 mm | 821 mm | 759 mm | 725 mm | 821 mm | 764 mm |
| 7 | 712 mm | 690 mm | - | 746 mm | 768 mm | 725 mm |
| 8 | 1000 mm | 1000 mm | 1000 mm | 877 mm | - | 1000 mm |
| Weighted Mean | 427 mm | 428 mm | 427 mm | 428 mm | 428 mm | 427 mm |

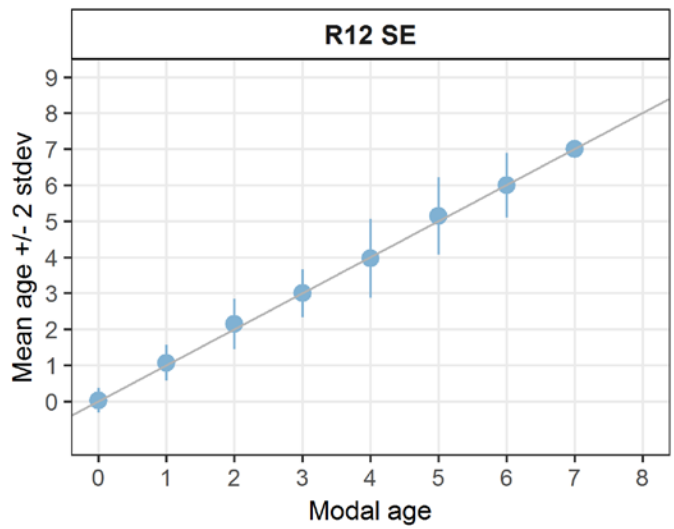
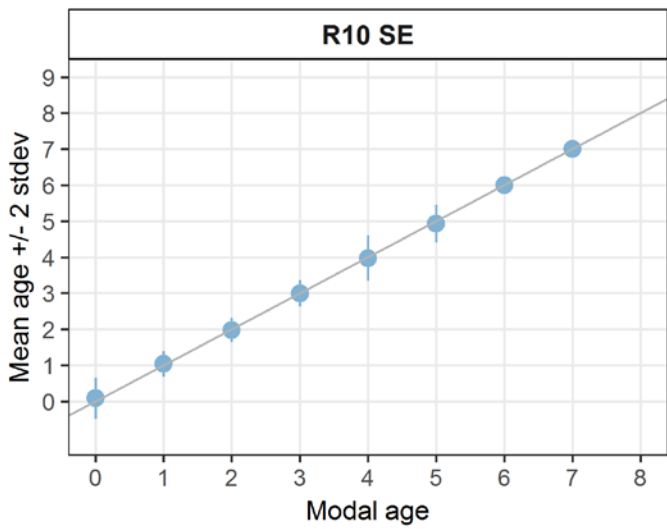
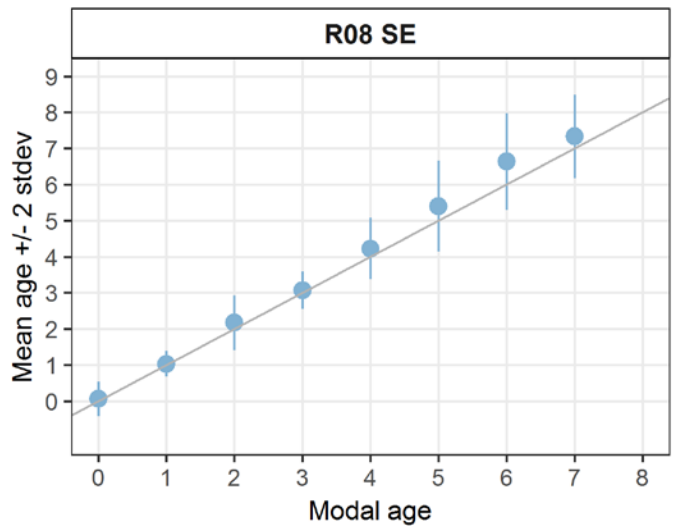
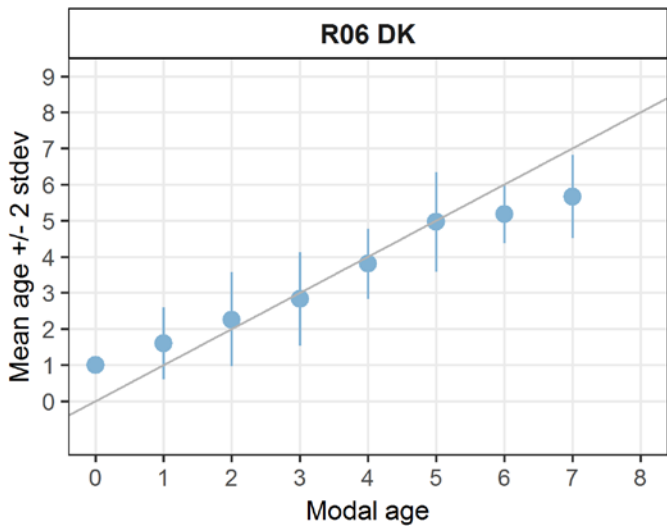
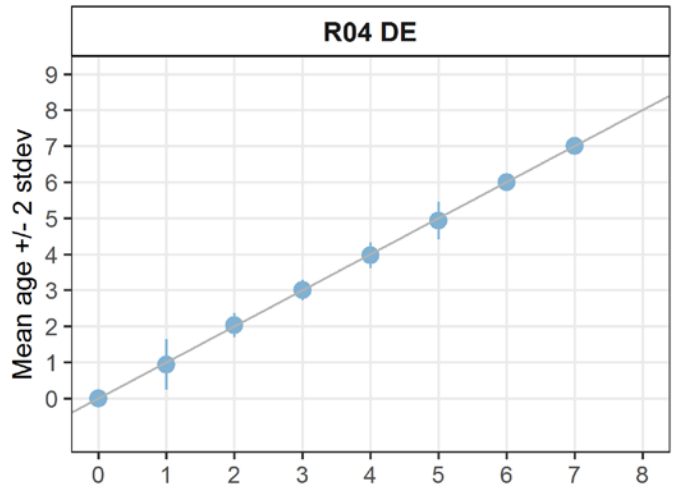
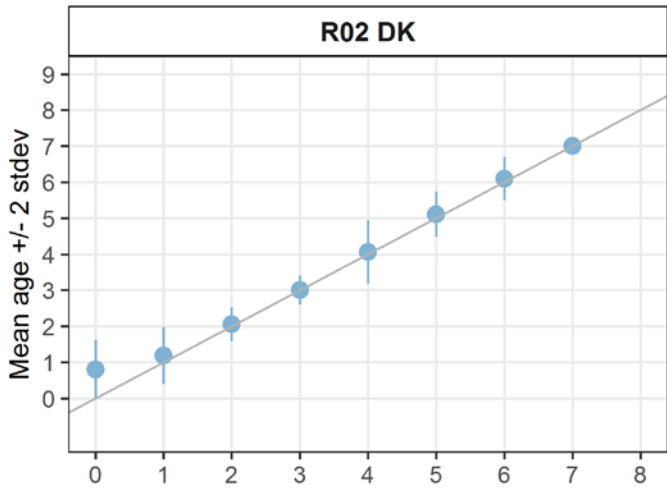


Figure 6: Individual age reading bias plots by age reader.

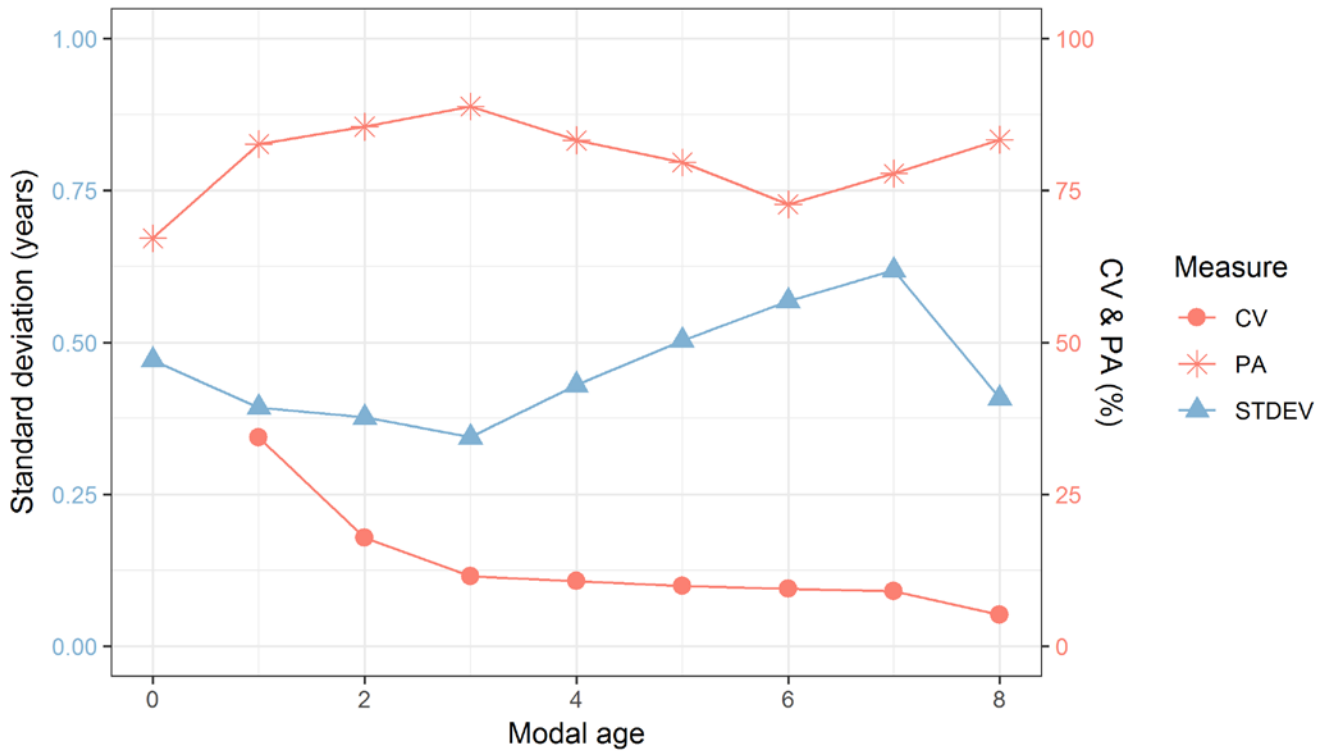


Figure 7: CV, PA and (STDEV (standard deviation) were plotted against modal age

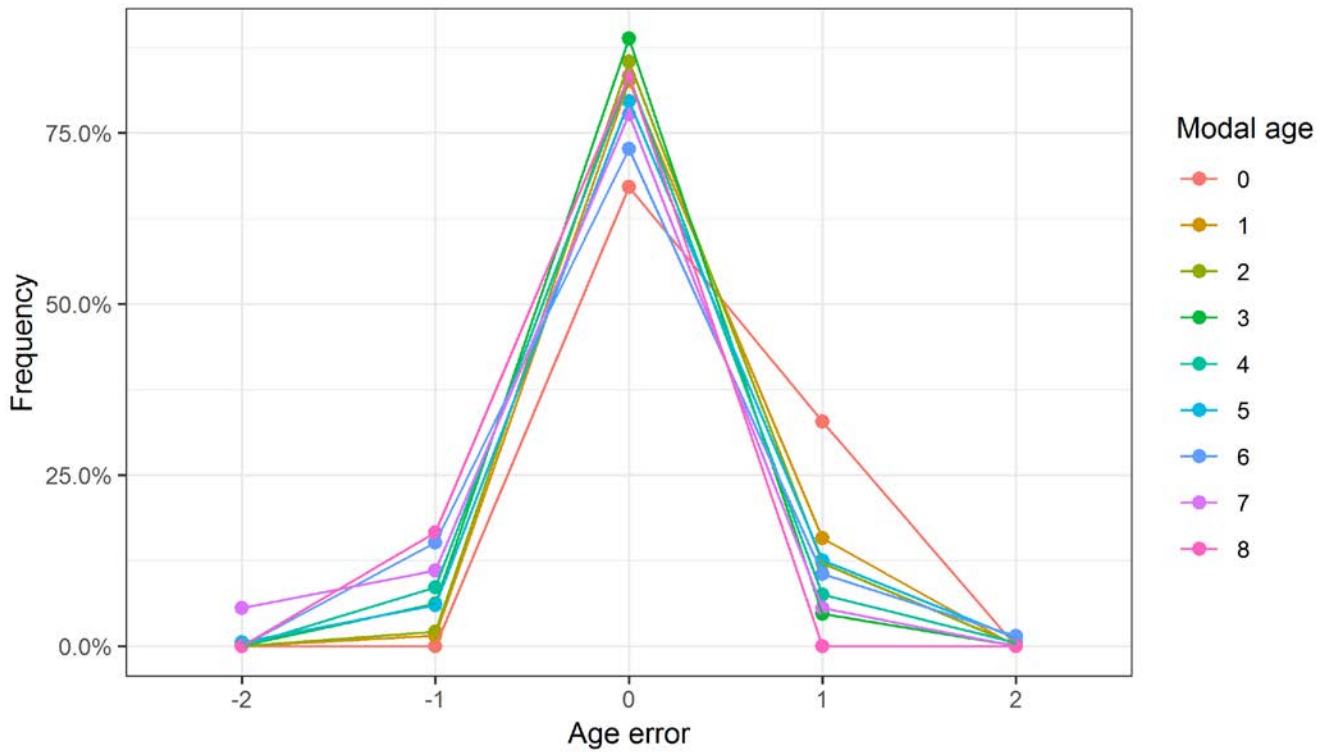


Figure 8: The distribution of the age reading errors in percentage by modal age as observed from the whole group of age readers in an age reading comparison to modal age. The achieved precision in age reading by MODAL age group is shown by the spread of the age readings errors. There appears to be no relative bias, if the age reading errors are normally distributed. The distributions are skewed, if relative bias occurs.

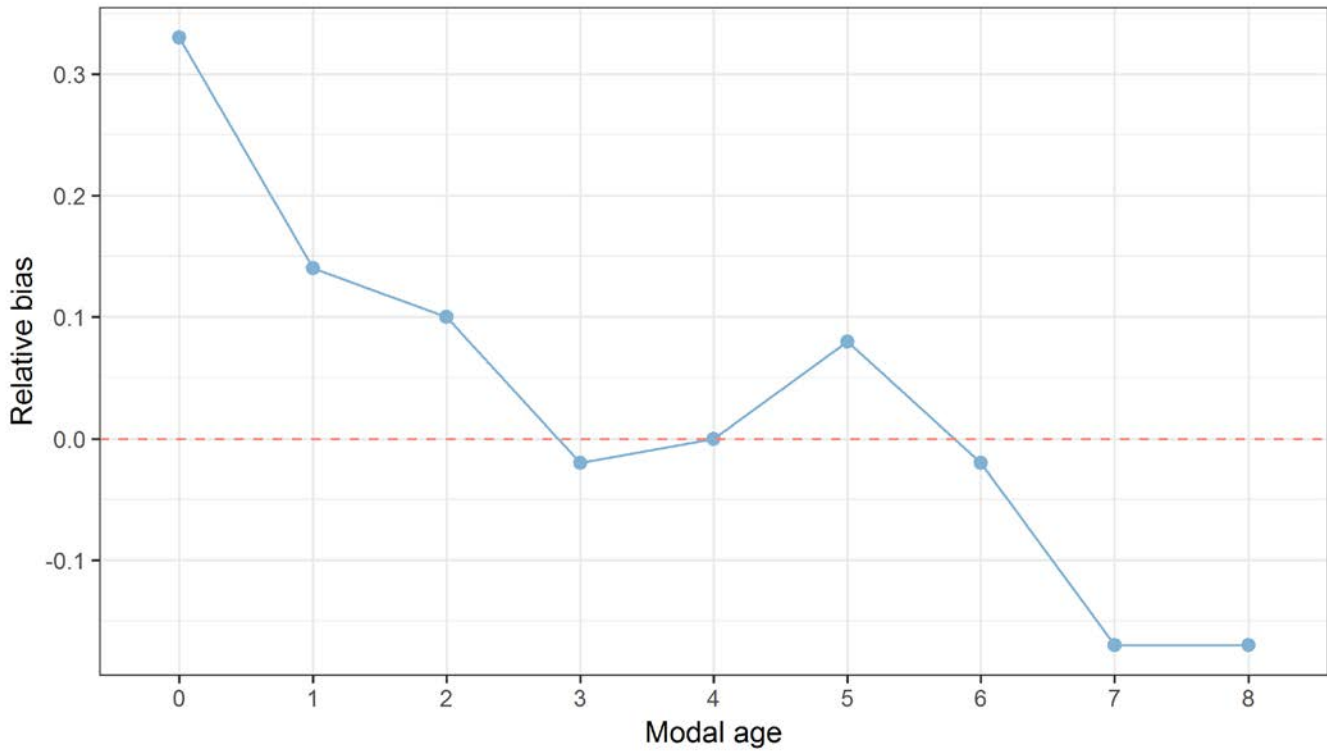


Figure 9: The relative bias by modal age as estimated by all age readers combined.

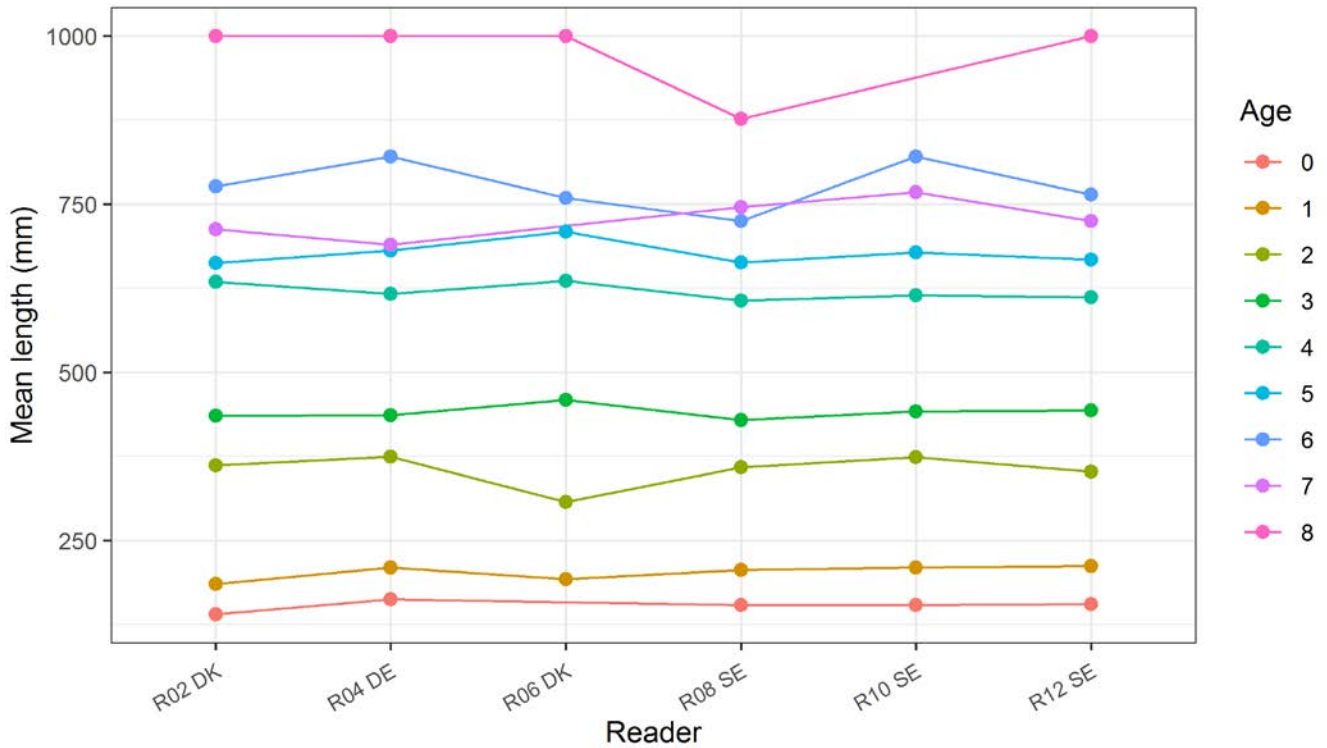


Figure 9: The mean length at age as estimated by each age reader.

Results Advanced readers

All samples included

Data Overview

Table 15: Data overview including modal age and statistics per sample.

| Fish ID | Event ID | Sample ID | length | sex | Catch date | ICES area | R02 DK | R04 DE | R06 DK | R08 SE | Modal age | PA % | CV % | APE % |
|---------|----------|------------------|--------|-----|---------------------|-----------|--------|--------|--------|--------|-----------|------|------|-------|
| 1 | 251 | S756_2018_22_001 | 580 | - | 08/11/2018 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 2 | 251 | S756_2018_22_003 | 120 | - | 08/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 75 | - | - |
| 3 | 251 | S756_2018_22_005 | 180 | - | 08/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 4 | 251 | S756_2018_22_007 | 120 | - | 08/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 75 | - | - |
| 5 | 251 | S756_2018_22_009 | 420 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 50 | 23 | 20 |
| 6 | 251 | S756_2018_22_010 | 420 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 50 | 23 | 20 |
| 7 | 251 | S756_2018_22_011 | 200 | - | 09/11/2018 00:00:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 8 | 251 | S756_2018_22_012 | 310 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 9 | 251 | S756_2018_22_013 | 300 | - | 09/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 10 | 251 | S756_2018_22_023 | 290 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 11 | 251 | S756_2018_22_024 | 310 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 12 | 251 | S756_2018_22_026 | 280 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 13 | 251 | S756_2018_22_030 | 220 | - | 10/11/2018 00:00:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 14 | 251 | S756_2018_22_031 | 410 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 15 | 251 | S756_2018_22_036 | 280 | - | 10/11/2018 00:00:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 16 | 251 | S756_2018_22_039 | 620 | - | 11/11/2018 00:00:00 | 27.3.d | 2 | 2 | 4 | 3 | 2 | 50 | 35 | 27 |
| 17 | 251 | S756_2018_22_042 | 430 | - | 11/11/2018 00:00:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 18 | 251 | S756_2018_22_044 | 670 | - | 11/11/2018 00:00:00 | 27.3.d | 5 | 5 | 4 | 5 | 5 | 75 | 11 | 8 |
| 19 | 251 | S756_2018_22_051 | 100 | - | 11/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 20 | 251 | S756_2018_22_055 | 110 | - | 11/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 21 | 251 | S756_2018_22_059 | 180 | - | 11/11/2018 00:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 22 | 251 | S756_2018_22_067 | 80 | - | 11/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 75 | - | - |
| 23 | 251 | S756_2018_22_068 | 90 | - | 11/11/2018 00:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 75 | - | - |

| | | | | | | | | | | | | | | |
|----|-----|------------------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 24 | 251 | S760_2019_22_001 | 880 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 25 | 251 | S760_2019_22_002 | 720 | - | 19/02/2019 00:00:00 | 27.3.d | 4 | 4 | 5 | 4 | 4 | 75 | 12 | 9 |
| 26 | 251 | S760_2019_22_003 | 690 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 50 | 16 | 14 |
| 27 | 251 | S760_2019_22_004 | 680 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 5 | 5 | 75 | 10 | 7 |
| 28 | 251 | S760_2019_22_005 | 630 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 5 | 4 | 3 | 50 | 26 | 20 |
| 29 | 251 | S760_2019_22_007 | 580 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 30 | 251 | S760_2019_22_008 | 630 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 31 | 251 | S760_2019_22_009 | 570 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 32 | 251 | S760_2019_22_010 | 510 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 33 | 251 | S760_2019_22_011 | 540 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 4 | 3 | 4 | 3 | 50 | 16 | 14 |
| 34 | 251 | S760_2019_22_014 | 600 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 35 | 251 | S760_2019_22_015 | 510 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 4 | 4 | 5 | 4 | 50 | 13 | 11 |
| 36 | 251 | S760_2019_22_016 | 520 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 37 | 251 | S760_2019_22_017 | 500 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 38 | 251 | S760_2019_22_019 | 490 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 39 | 251 | S760_2019_22_020 | 630 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 40 | 251 | S760_2019_22_021 | 620 | - | 19/02/2019 00:00:00 | 27.3.d | 5 | 4 | 4 | 5 | 4 | 50 | 13 | 11 |
| 41 | 251 | S760_2019_22_024 | 590 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 42 | 251 | S760_2019_22_025 | 580 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 43 | 251 | S760_2019_22_027 | 670 | - | 19/02/2019 00:00:00 | 27.3.d | 4 | 4 | 4 | 5 | 4 | 75 | 12 | 9 |
| 44 | 251 | S760_2019_22_030 | 530 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 45 | 251 | S760_2019_22_031 | 500 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 46 | 251 | S760_2019_22_034 | 520 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 47 | 251 | S760_2019_22_035 | 490 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 48 | 251 | S760_2019_22_041 | 420 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 49 | 251 | S760_2019_22_042 | 420 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 50 | 251 | S760_2019_22_045 | 410 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 51 | 251 | S760_2019_22_047 | 400 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 52 | 251 | S760_2019_22_050 | 390 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |

| | | | | | | | | | | | | | | |
|----|-----|------------------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 53 | 251 | S760_2019_22_051 | 420 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 54 | 251 | S760_2019_22_053 | 390 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 55 | 251 | S760_2019_22_062 | 330 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 56 | 251 | S760_2019_22_063 | 330 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 57 | 251 | S760_2019_22_064 | 320 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 58 | 251 | S760_2019_22_065 | 320 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 59 | 251 | S760_2019_22_071 | 300 | - | 19/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 60 | 251 | S760_2019_22_072 | 290 | - | 19/02/2019 00:00:00 | 27.3.d | 2 | 3 | 2 | 3 | 2 | 50 | 23 | 20 |
| 61 | 251 | S760_2019_22_110 | 210 | - | 20/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 62 | 251 | S760_2019_22_172 | 790 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 6 | 5 | 50 | 10 | 9 |
| 63 | 251 | S760_2019_22_173 | 670 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 6 | 5 | 75 | 10 | 7 |
| 64 | 251 | S760_2019_22_175 | 710 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 65 | 251 | S760_2019_22_176 | 720 | - | 20/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 6 | 5 | 50 | 10 | 9 |
| 66 | 251 | S760_2019_22_390 | 170 | - | 21/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 67 | 251 | S760_2019_22_394 | 180 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 68 | 251 | S760_2019_22_407 | 220 | - | 22/02/2019 00:00:00 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 69 | 251 | S760_2019_22_408 | 210 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 70 | 251 | S760_2019_22_409 | 190 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 71 | 251 | S760_2019_22_412 | 140 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 72 | 251 | S760_2019_22_413 | 760 | - | 22/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 5 | 5 | 75 | 10 | 7 |
| 73 | 251 | S760_2019_22_419 | 210 | - | 22/02/2019 00:00:00 | 27.3.d | 2 | 1 | 2 | 1 | 1 | 50 | 38 | 33 |
| 74 | 251 | S760_2019_22_420 | 180 | - | 22/02/2019 00:00:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 75 | 251 | S760_2019_22_423 | 690 | - | 23/02/2019 00:00:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 76 | 251 | S760_2019_22_425 | 740 | - | 23/02/2019 00:00:00 | 27.3.d | 5 | 5 | 6 | 6 | 5 | 50 | 10 | 9 |
| 77 | 251 | S760_2019_22_428 | 160 | - | 23/02/2019 00:00:00 | 27.3.d | 2 | 1 | 2 | 1 | 1 | 50 | 38 | 33 |
| 78 | 251 | 7802556 | 330 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 79 | 251 | 7802557 | 420 | - | 23/10/2018 06:13:00 | 27.3.d | 3 | 2 | 3 | 3 | 3 | 75 | 18 | 14 |
| 80 | 251 | 7802558 | 320 | - | 23/10/2018 06:13:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 81 | 251 | 7802559 | 370 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |

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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 82 | 251 | 7802560 | 310 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 83 | 251 | 7802561 | 300 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 84 | 251 | 7802562 | 290 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 85 | 251 | 7802563 | 260 | - | 23/10/2018 06:13:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 86 | 251 | 7802564 | 220 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 0 | 1 | 1 | 1 | 50 | 82 | 50 |
| 87 | 251 | 7802565 | 380 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 3 | 2 | 75 | 22 | 17 |
| 88 | 251 | 7802566 | 410 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 89 | 251 | 7802567 | 500 | - | 23/10/2018 06:13:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 75 | 13 | 10 |
| 90 | 251 | 7802568 | 350 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 91 | 251 | 7802569 | 400 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 92 | 251 | 7802570 | 390 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 93 | 251 | 7802571 | 280 | - | 23/10/2018 06:13:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 94 | 251 | 7802572 | 210 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 0 | 1 | 1 | 1 | 50 | 82 | 50 |
| 95 | 251 | 7802573 | 160 | - | 23/10/2018 06:13:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 96 | 251 | 7802574 | 430 | - | 23/10/2018 06:13:00 | 27.3.d | 3 | 2 | 3 | 3 | 3 | 75 | 18 | 14 |
| 97 | 251 | 7802575 | 470 | - | 23/10/2018 06:13:00 | 27.3.d | 4 | 3 | 3 | 3 | 3 | 75 | 15 | 12 |
| 98 | 251 | 7802576 | 270 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 1 | 1 | 1 | 1 | 75 | 40 | 30 |
| 99 | 251 | 7802577 | 340 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 100 | 251 | 7802578 | 570 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 101 | 251 | 7802579 | 540 | - | 23/10/2018 06:13:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 102 | 251 | 7802580 | 510 | - | 23/10/2018 06:13:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 75 | 13 | 10 |
| 103 | 251 | 7802581 | 150 | - | 23/10/2018 06:13:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 104 | 251 | 7802582 | 200 | - | 23/10/2018 06:13:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 105 | 251 | 7802891 | 650 | - | 24/10/2018 06:41:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 106 | 251 | 7802892 | 530 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 50 | 23 | 20 |
| 107 | 251 | 7802893 | 450 | - | 24/10/2018 06:41:00 | 27.3.d | 3 | 2 | 3 | 2 | 2 | 50 | 23 | 20 |
| 108 | 251 | 7802894 | 340 | - | 24/10/2018 06:41:00 | 27.3.d | 1 | 1 | 2 | 2 | 1 | 50 | 38 | 33 |
| 109 | 251 | 7802895 | 400 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 110 | 251 | 7802896 | 470 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |

| | | | | | | | | | | | | | | |
|-----|-----|---------|------|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 111 | 251 | 7802897 | 440 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 112 | 251 | 7802898 | 370 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 113 | 251 | 7802899 | 460 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 50 | 23 | 20 |
| 114 | 251 | 7802900 | 410 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 115 | 251 | 7802901 | 390 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 116 | 251 | 7802902 | 420 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 117 | 251 | 7802903 | 360 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 118 | 251 | 7802904 | 330 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 119 | 251 | 7802905 | 350 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 120 | 251 | 7802906 | 320 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 121 | 251 | 7802907 | 290 | - | 24/10/2018 06:41:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 122 | 251 | 7803189 | 940 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 6 | 7 | 6 | 75 | 8 | 6 |
| 123 | 251 | 7803190 | 790 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 124 | 251 | 7803191 | 830 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 5 | 7 | 6 | 50 | 14 | 8 |
| 125 | 251 | 7803192 | 1000 | - | 24/10/2018 14:55:00 | 27.3.d | 8 | 8 | 8 | 8 | 8 | 100 | 0 | 0 |
| 126 | 251 | 7803193 | 850 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 75 | 9 | 7 |
| 127 | 251 | 7803194 | 950 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 75 | 9 | 7 |
| 128 | 251 | 7803195 | 750 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 5 | 4 | 75 | 12 | 9 |
| 129 | 251 | 7803196 | 860 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 6 | 5 | 7 | 6 | 50 | 14 | 8 |
| 130 | 251 | 7803197 | 720 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 131 | 251 | 7803198 | 610 | - | 24/10/2018 14:55:00 | 27.3.d | 5 | 4 | 4 | 5 | 4 | 50 | 13 | 11 |
| 132 | 251 | 7803199 | 780 | - | 24/10/2018 14:55:00 | 27.3.d | 7 | 6 | 5 | 7 | 7 | 50 | 15 | 12 |
| 133 | 251 | 7803200 | 760 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 134 | 251 | 7803201 | 740 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 135 | 251 | 7803202 | 650 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 136 | 251 | 7803203 | 710 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 137 | 251 | 7803204 | 590 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 75 | 13 | 10 |
| 138 | 251 | 7803205 | 570 | - | 24/10/2018 14:55:00 | 27.3.d | 6 | 4 | 3 | 7 | 3 | 25 | 37 | 30 |
| 139 | 251 | 7803206 | 360 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |

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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 140 | 251 | 7803207 | 390 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 141 | 251 | 7803208 | 330 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 142 | 251 | 7803209 | 300 | - | 24/10/2018 14:55:00 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 143 | 251 | 7803210 | 530 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 75 | 13 | 10 |
| 144 | 251 | 7803211 | 640 | - | 24/10/2018 14:55:00 | 27.3.d | 5 | 5 | 4 | 6 | 5 | 50 | 16 | 10 |
| 145 | 251 | 7803212 | 700 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 5 | 4 | 75 | 12 | 9 |
| 146 | 251 | 7803213 | 680 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 147 | 251 | 7803214 | 510 | - | 24/10/2018 14:55:00 | 27.3.d | 5 | 4 | 3 | 5 | 5 | 50 | 23 | 18 |
| 148 | 251 | 7803215 | 670 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 149 | 251 | 7803216 | 690 | - | 24/10/2018 14:55:00 | 27.3.d | 5 | 5 | 4 | 5 | 5 | 75 | 11 | 8 |
| 150 | 251 | 7803217 | 450 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 151 | 251 | 7803218 | 490 | - | 24/10/2018 14:55:00 | 27.3.d | 3 | 4 | 3 | 3 | 3 | 75 | 15 | 12 |
| 152 | 251 | 7803219 | 410 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 153 | 251 | 7803220 | 420 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 154 | 251 | 7803221 | 560 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 3 | 4 | 4 | 75 | 13 | 10 |
| 155 | 251 | 7803222 | 440 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 157 | 251 | 7803223 | 620 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 158 | 251 | 7803224 | 600 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 159 | 251 | 7803225 | 630 | - | 24/10/2018 14:55:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 160 | 251 | 7803226 | 430 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 3 | 2 | 2 | 75 | 22 | 17 |
| 161 | 251 | 7803227 | 400 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 162 | 251 | 7803228 | 370 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 163 | 251 | 7803229 | 350 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 164 | 251 | 7803230 | 380 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 165 | 251 | 7803231 | 340 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 166 | 251 | 7803232 | 320 | - | 24/10/2018 14:55:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 167 | 251 | 7803233 | 310 | - | 24/10/2018 14:55:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 168 | 251 | 7803234 | 280 | - | 24/10/2018 14:55:00 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 169 | 251 | 7803235 | 820 | - | 30/10/2018 11:58:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |

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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 170 | 251 | 7807045 | 140 | - | 30/10/2018 11:58:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 171 | 251 | 7807046 | 330 | - | 30/10/2018 10:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 172 | 251 | 7806841 | 280 | - | 30/10/2018 10:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 173 | 251 | 7806842 | 260 | - | 30/10/2018 10:13:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 174 | 251 | 7806843 | 130 | - | 30/10/2018 10:13:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 175 | 251 | 7806844 | 850 | - | 30/10/2018 08:23:00 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 176 | 251 | 7806686 | 490 | - | 30/10/2018 08:23:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 50 | 23 | 20 |
| 177 | 251 | 7806687 | 320 | - | 30/10/2018 08:23:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 178 | 251 | 7806688 | 260 | - | 30/10/2018 08:23:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 179 | 251 | 7806689 | 690 | - | 30/10/2018 06:24:00 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 180 | 251 | 7806465 | 300 | - | 30/10/2018 06:24:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 181 | 251 | 7806466 | 310 | - | 30/10/2018 06:24:00 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 182 | 251 | 7806467 | 270 | - | 30/10/2018 06:24:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 183 | 251 | 7806468 | 290 | - | 30/10/2018 06:24:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 184 | 251 | 7806469 | 280 | - | 30/10/2018 06:24:00 | 27.3.d | 2 | 2 | 1 | 2 | 2 | 75 | 29 | 21 |
| 185 | 251 | 7806470 | 170 | - | 30/10/2018 06:24:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 186 | 251 | 7806471 | 150 | - | 30/10/2018 06:24:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 187 | 251 | 7806472 | 150 | - | 30/10/2018 06:24:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 188 | 251 | 7806473 | 160 | - | 30/10/2018 06:24:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 189 | 251 | 7806474 | 170 | - | 29/10/2018 07:53:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 75 | - | - |
| 190 | 251 | 7806128 | 180 | - | 29/10/2018 06:05:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 191 | 251 | 7805939 | 150 | - | 29/10/2018 06:05:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 192 | 251 | 7805940 | 390 | - | 28/10/2018 12:25:00 | 27.3.d | 2 | 2 | 2 | 3 | 2 | 75 | 22 | 17 |
| 193 | 251 | 7805758 | 170 | - | 28/10/2018 13:27:00 | 27.3.d | 2 | 2 | 1 | 1 | 1 | 50 | 38 | 33 |
| 194 | 251 | 7805562 | 160 | - | 28/10/2018 10:41:00 | 27.3.d | 1 | 0 | 1 | 1 | 1 | 75 | 67 | 50 |
| 195 | 251 | 7805356 | 640 | - | 28/10/2018 09:12:00 | 27.3.d | 2 | 2 | 3 | 3 | 2 | 50 | 23 | 20 |
| 196 | 251 | 7805199 | 210 | - | 28/10/2018 09:12:00 | 27.3.d | 0 | 0 | 1 | 1 | 0 | 50 | - | - |
| 197 | 251 | 7805200 | 310 | - | 28/10/2018 06:41:00 | 27.3.d | 1 | 0 | 1 | 1 | 1 | 75 | 67 | 50 |
| 198 | 251 | 7804982 | 150 | - | 27/10/2018 12:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |

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|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 199 | 251 | 7804870 | 160 | - | 27/10/2018 12:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 200 | 251 | 7804871 | 170 | - | 27/10/2018 12:00:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 201 | 251 | 7804872 | 190 | - | 27/10/2018 12:00:00 | 27.3.d | 0 | 0 | 1 | 0 | 0 | 75 | - | - |
| 202 | 251 | 7804873 | 190 | - | 01/11/2018 11:53:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 203 | 251 | 7808502 | 180 | - | 01/11/2018 11:53:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 204 | 251 | 7808503 | 160 | - | 01/11/2018 11:53:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 205 | 251 | 7808504 | 180 | - | 01/11/2018 11:53:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 206 | 251 | 7808505 | 160 | - | 01/11/2018 11:53:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 207 | 251 | 7808506 | 160 | - | 01/11/2018 09:40:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 208 | 251 | 7808351 | 170 | - | 01/11/2018 07:26:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 209 | 251 | 7808249 | 150 | - | 31/10/2018 06:14:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 210 | 251 | 7807451 | 160 | - | 31/10/2018 06:14:00 | 27.3.d | 1 | 0 | 1 | 0 | 0 | 50 | - | - |
| 211 | 251 | 7807452 | 650 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 212 | 251 | 7895905 | 710 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 213 | 251 | 7895906 | 690 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 75 | 9 | 7 |
| 214 | 251 | 7895907 | 510 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 215 | 251 | 7895908 | 780 | - | 28/02/2019 14:27:21 | 27.3.d | 7 | 7 | 6 | 8 | 7 | 50 | 12 | 7 |
| 216 | 251 | 7895909 | 680 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 5 | 5 | 7 | 5 | 50 | 17 | 13 |
| 217 | 251 | 7895910 | 530 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 218 | 251 | 7895911 | 560 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 4 | 4 | 4 | 4 | 75 | 13 | 10 |
| 219 | 251 | 7895912 | 490 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 220 | 251 | 7895913 | 550 | - | 28/02/2019 14:27:21 | 27.3.d | 4 | 4 | 4 | 4 | 4 | 100 | 0 | 0 |
| 221 | 251 | 7895914 | 590 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 5 | 5 | 6 | 5 | 50 | 10 | 9 |
| 222 | 251 | 7895915 | 480 | - | 28/02/2019 14:27:21 | 27.3.d | 4 | 3 | 4 | 3 | 3 | 50 | 16 | 14 |
| 223 | 251 | 7895916 | 540 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 4 | 5 | 6 | 5 | 50 | 16 | 10 |
| 224 | 251 | 7895917 | 600 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 225 | 251 | 7895918 | 760 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 6 | 6 | 7 | 6 | 75 | 8 | 6 |
| 226 | 251 | 7895919 | 660 | - | 28/02/2019 14:27:21 | 27.3.d | 7 | 7 | 6 | 7 | 7 | 75 | 7 | 6 |
| 227 | 251 | 7895920 | 700 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 75 | 9 | 7 |

| | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 228 | 251 | 7895921 | 670 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 229 | 251 | 7895922 | 640 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 230 | 251 | 7895923 | 610 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 231 | 251 | 7895924 | 520 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 75 | 15 | 12 |
| 232 | 251 | 7895925 | 420 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 233 | 251 | 7895926 | 570 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 234 | 251 | 7895927 | 480 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 235 | 251 | 7895928 | 450 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 236 | 251 | 7895929 | 820 | - | 28/02/2019 14:27:21 | 27.3.d | 6 | 6 | 5 | 6 | 6 | 75 | 9 | 7 |
| 237 | 251 | 7895930 | 580 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 4 | 5 | 5 | 75 | 11 | 8 |
| 238 | 251 | 7895931 | 630 | - | 28/02/2019 14:27:21 | 27.3.d | 7 | 7 | 5 | 7 | 7 | 75 | 15 | 12 |
| 239 | 251 | 7895932 | 620 | - | 28/02/2019 14:27:21 | 27.3.d | 5 | 5 | 5 | 5 | 5 | 100 | 0 | 0 |
| 240 | 251 | 7895933 | 420 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 241 | 251 | 7895934 | 400 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 242 | 251 | 7895935 | 350 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 243 | 251 | 7895936 | 390 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 244 | 251 | 7895937 | 320 | - | 28/02/2019 14:27:21 | 27.3.d | 2 | 2 | 2 | 2 | 2 | 100 | 0 | 0 |
| 245 | 251 | 7895938 | 310 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 246 | 251 | 7895939 | 290 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 247 | 251 | 7895940 | 280 | - | 28/02/2019 14:27:21 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 248 | 251 | 7895941 | 550 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 249 | 251 | 7896061 | 580 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 250 | 251 | 7896062 | 560 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 251 | 251 | 7896063 | 570 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 252 | 251 | 7896064 | 500 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 253 | 251 | 7896065 | 600 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 50 | 16 | 14 |
| 254 | 251 | 7896066 | 540 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 255 | 251 | 7896067 | 470 | - | 01/03/2019 06:27:20 | 27.3.d | - | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 256 | 251 | 7896068 | 450 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |

| | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 257 | 251 | 7896069 | 490 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 258 | 251 | 7896070 | 480 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 259 | 251 | 7896071 | 530 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 260 | 251 | 7896072 | 440 | - | 01/03/2019 06:27:20 | 27.3.d | 2 | 3 | 3 | 3 | 3 | 75 | 18 | 14 |
| 261 | 251 | 7896073 | 510 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 262 | 251 | 7896074 | 520 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 263 | 251 | 7896075 | 460 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 264 | 251 | 7896076 | 400 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 265 | 251 | 7896077 | 380 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 266 | 251 | 7896078 | 420 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 267 | 251 | 7896079 | 340 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 268 | 251 | 7896080 | 360 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 4 | 2 | 3 | 3 | 50 | 27 | 17 |
| 269 | 251 | 7896081 | 350 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 270 | 251 | 7896082 | 390 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 271 | 251 | 7896083 | 370 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 272 | 251 | 7896084 | 430 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 273 | 251 | 7896085 | 310 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 274 | 251 | 7896086 | 330 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 275 | 251 | 7896087 | 410 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 276 | 251 | 7896088 | 300 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 277 | 251 | 7896089 | 320 | - | 01/03/2019 06:27:20 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 278 | 251 | 7896090 | 520 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 279 | 251 | 7896562 | 510 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 280 | 251 | 7896563 | 470 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | - | 3 | 3 | 100 | 0 | 0 |
| 281 | 251 | 7896564 | 480 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 282 | 251 | 7896565 | 340 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 283 | 251 | 7896566 | 430 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 75 | 15 | 12 |
| 284 | 251 | 7896567 | 420 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 285 | 251 | 7896568 | 440 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |

| | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 286 | 251 | 7896569 | 410 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 287 | 251 | 7896570 | 390 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 288 | 251 | 7896571 | 380 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 289 | 251 | 7896572 | 330 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 4 | 3 | 50 | 27 | 17 |
| 290 | 251 | 7896573 | 370 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 291 | 251 | 7896574 | 360 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 292 | 251 | 7896575 | 450 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 293 | 251 | 7896576 | 350 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 294 | 251 | 7896577 | 260 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | - | 3 | 3 | 100 | 0 | 0 |
| 295 | 251 | 7896578 | 310 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 296 | 251 | 7896579 | 300 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 297 | 251 | 7896580 | 320 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 298 | 251 | 7896581 | 290 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 299 | 251 | 7896582 | 280 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 300 | 251 | 7896583 | 270 | - | 01/03/2019 09:53:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 301 | 251 | 7896584 | 510 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | - | 3 | 3 | 100 | 0 | 0 |
| 302 | 251 | 7896815 | 490 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 303 | 251 | 7896816 | 450 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 304 | 251 | 7896817 | 600 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 305 | 251 | 7896818 | 460 | - | 02/03/2019 06:57:32 | 27.3.d | 4 | 3 | 3 | 4 | 3 | 50 | 16 | 14 |
| 306 | 251 | 7896819 | 620 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 307 | 251 | 7896820 | 470 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 308 | 251 | 7896821 | 440 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 309 | 251 | 7896822 | 410 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 310 | 251 | 7896823 | 340 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 311 | 251 | 7896824 | 370 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 312 | 251 | 7896825 | 400 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 313 | 251 | 7896826 | 350 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 314 | 251 | 7896827 | 560 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | - | 3 | 3 | 100 | 0 | 0 |

| | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 316 | 251 | 7896828 | 430 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | - | 3 | 3 | 100 | 0 | 0 |
| 317 | 251 | 7896829 | 460 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 318 | 251 | 7896830 | 390 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 319 | 251 | 7896831 | 500 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 320 | 251 | 7896832 | 420 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 321 | 251 | 7896833 | 380 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 322 | 251 | 7896834 | 330 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 323 | 251 | 7896835 | 310 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 324 | 251 | 7896836 | 360 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 327 | 251 | 7896837 | 280 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 1 | 3 | 3 | 75 | 40 | 30 |
| 328 | 251 | 7896838 | 320 | - | 02/03/2019 06:57:32 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 329 | 251 | 7896839 | 660 | - | 02/03/2019 10:16:07 | 27.3.d | 4 | 4 | - | 4 | 4 | 100 | 0 | 0 |
| 330 | 251 | 7896840 | 470 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 331 | 251 | 7896841 | 500 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 332 | 251 | 7896842 | 480 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 333 | 251 | 7897089 | 430 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 334 | 251 | 7897090 | 440 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 335 | 251 | 7897091 | 460 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 75 | 15 | 12 |
| 336 | 251 | 7897092 | 410 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 4 | 3 | 75 | 15 | 12 |
| 337 | 251 | 7897093 | 400 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 338 | 251 | 7897094 | 390 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 339 | 251 | 7897095 | 510 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 340 | 251 | 7897096 | 450 | - | 02/03/2019 10:16:07 | 27.3.d | 2 | 3 | 3 | 3 | 3 | 75 | 18 | 14 |
| 341 | 251 | 7897097 | 380 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 342 | 251 | 7897098 | 420 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 343 | 251 | 7897099 | 370 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 344 | 251 | 7897100 | 360 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 345 | 251 | 7897101 | 320 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 346 | 251 | 7897102 | 330 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |

| | | | | | | | | | | | | | | |
|-----|-----|---------|-----|---|------------------------|--------|---|---|---|---|---|-----|----|----|
| 347 | 251 | 7897103 | 340 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 3 | 3 | 3 | 100 | 0 | 0 |
| 348 | 251 | 7897104 | 310 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 349 | 251 | 7897105 | 300 | - | 02/03/2019 10:16:07 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 350 | 251 | 7897106 | 210 | - | 04/03/2019 08:27:43 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 351 | 251 | 7897107 | 120 | - | 04/03/2019 13:00:05 | 27.3.d | 1 | 1 | 1 | 1 | 1 | 100 | 0 | 0 |
| 352 | 251 | 7897108 | 130 | - | 04/03/2019 13:00:05 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 353 | 251 | 7897109 | 150 | - | 04/03/2019 13:00:05 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 354 | 251 | 7897817 | 170 | - | 04/03/2019 15:03:42 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 356 | 251 | 7898125 | 760 | - | 07/03/2019 13:13:19 | 27.3.d | 3 | 3 | 4 | 3 | 3 | 75 | 15 | 12 |
| 357 | 251 | 7898126 | 600 | - | 07/03/2019 13:13:19 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 50 | 16 | 14 |
| 358 | 251 | 7898127 | 760 | - | 07/03/2019 13:13:19 | 27.3.d | 3 | 3 | 4 | 4 | 3 | 50 | 16 | 14 |
| 359 | 251 | 7898209 | 170 | - | 07/03/2019 13:13:19 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 360 | 251 | 7898645 | 180 | - | 07/03/2019 13:13:19 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 361 | 251 | 7899237 | 150 | - | 07/03/2019 13:13:19 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |
| 362 | 251 | 7899238 | 710 | - | 07/03/2019 10:52:25 | 27.3.d | 4 | 3 | 4 | 4 | 4 | 75 | 13 | 10 |
| 363 | 251 | 7899239 | 850 | - | 07/03/2019 10:52:25 | 27.3.d | 6 | 6 | 5 | 8 | 6 | 50 | 20 | 14 |
| 364 | 251 | 7899240 | 280 | - | 07/03/2019 10:52:25 | 27.3.d | 3 | 3 | 2 | 3 | 3 | 75 | 18 | 14 |
| 365 | 251 | 7899241 | 160 | - | 07/03/2019 10:52:25 | 27.3.d | 1 | 1 | 2 | 1 | 1 | 75 | 40 | 30 |

Table 16: Number of age readings table gives an overview of number of readings per reader and modal age. The total numbers of readings per reader and per modal age are summarized at the end of the table.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE | total |
|--------------|------------|------------|------------|------------|-------------|
| 0 | 34 | 34 | 34 | 34 | 136 |
| 1 | 33 | 33 | 33 | 33 | 132 |
| 2 | 68 | 68 | 68 | 68 | 272 |
| 3 | 152 | 153 | 148 | 153 | 606 |
| 4 | 29 | 29 | 28 | 29 | 115 |
| 5 | 28 | 28 | 28 | 28 | 112 |
| 6 | 10 | 10 | 10 | 10 | 40 |
| 7 | 4 | 4 | 4 | 4 | 16 |
| 8 | 1 | 1 | 1 | 1 | 4 |
| Total | 359 | 360 | 354 | 360 | 1433 |

Table 17: Age composition by reader gives a summary of number of readings per reader.

| Modal age | R02 DK | R04 DE | R06 DK | R08 SE |
|--------------|------------|------------|------------|------------|
| 0 | 7 | 38 | 0 | 33 |
| 1 | 54 | 28 | 56 | 33 |
| 2 | 75 | 70 | 98 | 59 |
| 3 | 148 | 149 | 117 | 150 |
| 4 | 28 | 34 | 43 | 35 |
| 5 | 29 | 26 | 30 | 26 |
| 6 | 13 | 11 | 9 | 12 |
| 7 | 4 | 3 | 0 | 9 |
| 8 | 1 | 1 | 1 | 3 |
| Total | 359 | 360 | 354 | 360 |

Table 18: Mean length at age per reader is calculated per reader and age (not modal age) and for all readers combined per age. A weighted mean is also given.

| Age | R02 DK | R04 DE | R06 DK | R08 SE |
|----------------------|---------------|---------------|---------------|---------------|
| 0 | 140 mm | 163 mm | - | 154 mm |
| 1 | 185 mm | 210 mm | 192 mm | 206 mm |
| 2 | 362 mm | 374 mm | 307 mm | 359 mm |
| 3 | 435 mm | 436 mm | 459 mm | 429 mm |
| 4 | 635 mm | 616 mm | 636 mm | 607 mm |
| 5 | 663 mm | 681 mm | 709 mm | 663 mm |
| 6 | 776 mm | 821 mm | 759 mm | 725 mm |
| 7 | 712 mm | 690 mm | - | 746 mm |
| 8 | 1000 mm | 1000 mm | 1000 mm | 877 mm |
| Weighted Mean | 427 mm | 428 mm | 427 mm | 428 mm |

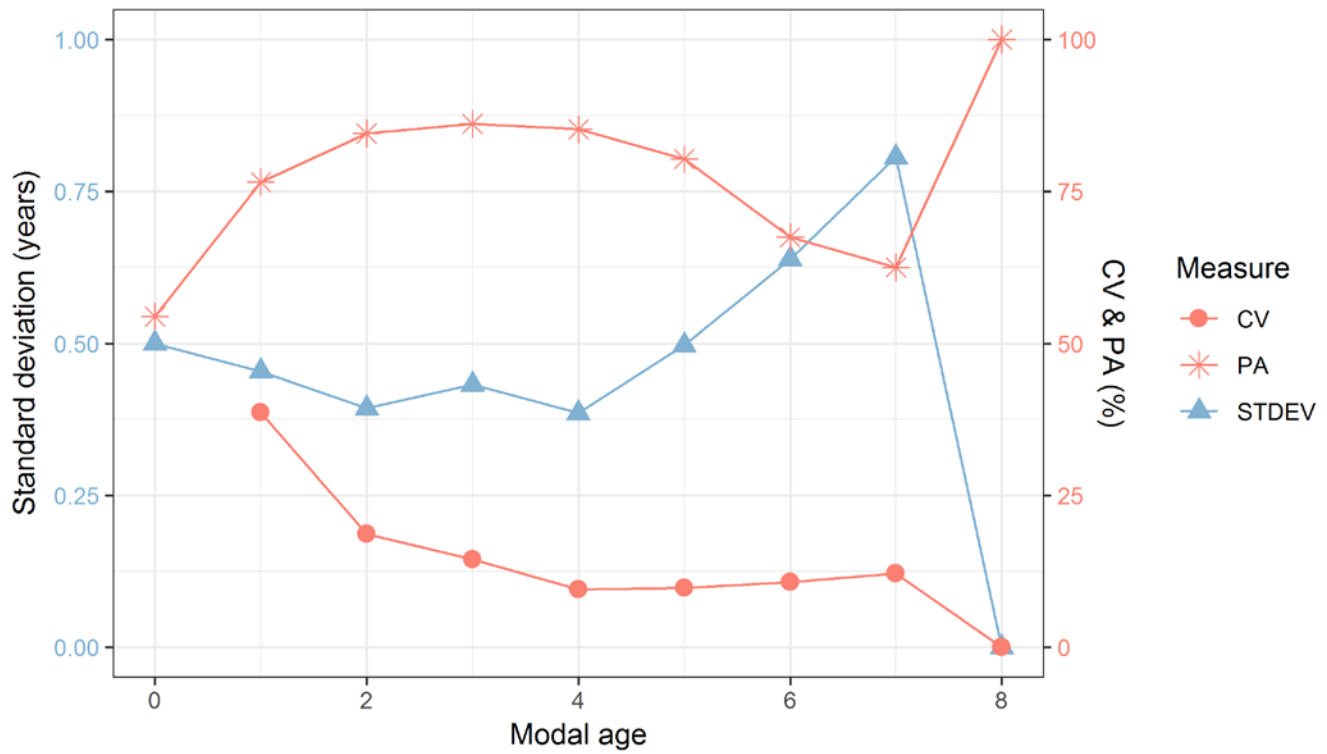


Figure 10: CV, PA and (STDEV (standard deviation) are plotted against modal age

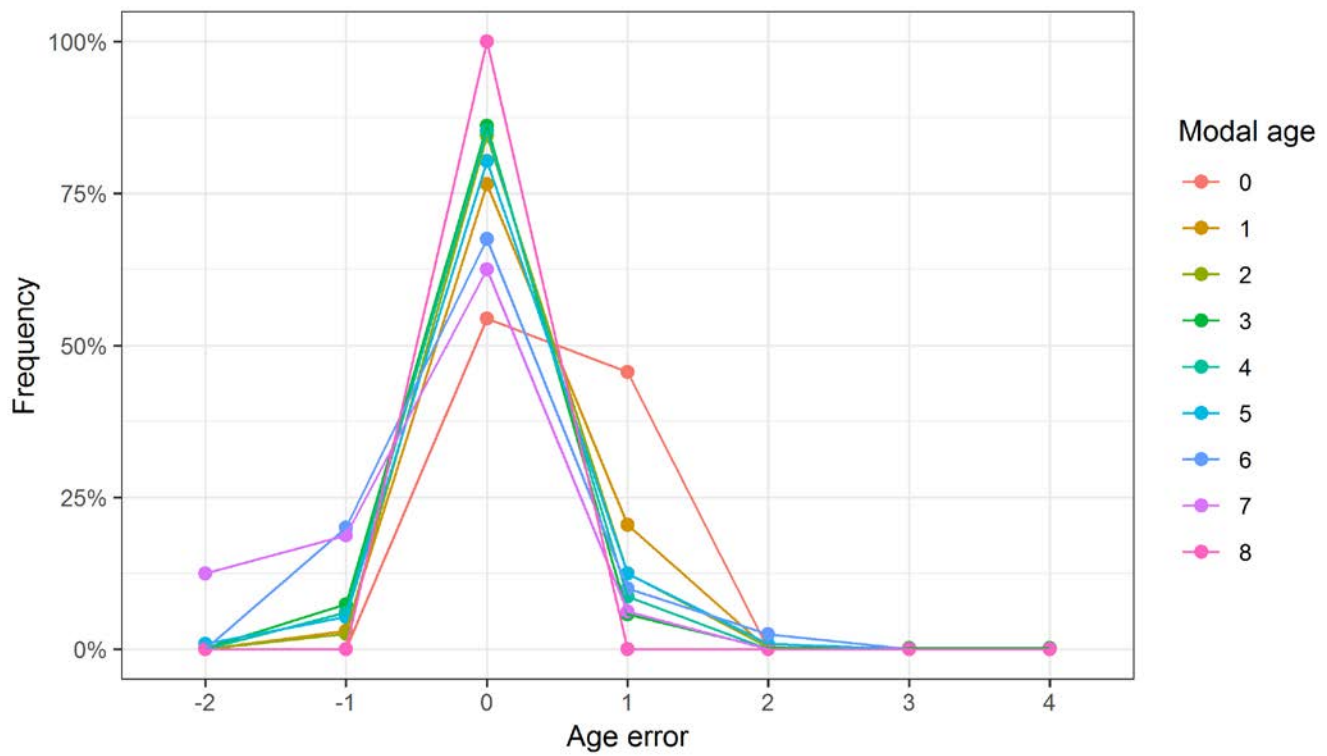


Figure 11: The distribution of the age reading errors in percentage by modal age as observed from the whole group of age readers in an age reading comparison to modal age. The achieved precision in age reading by MODAL age group is

shown by the spread of the age readings errors. There appears to be no relative bias, if the age reading errors are normally distributed. The distributions are skewed, if relative bias occurs.

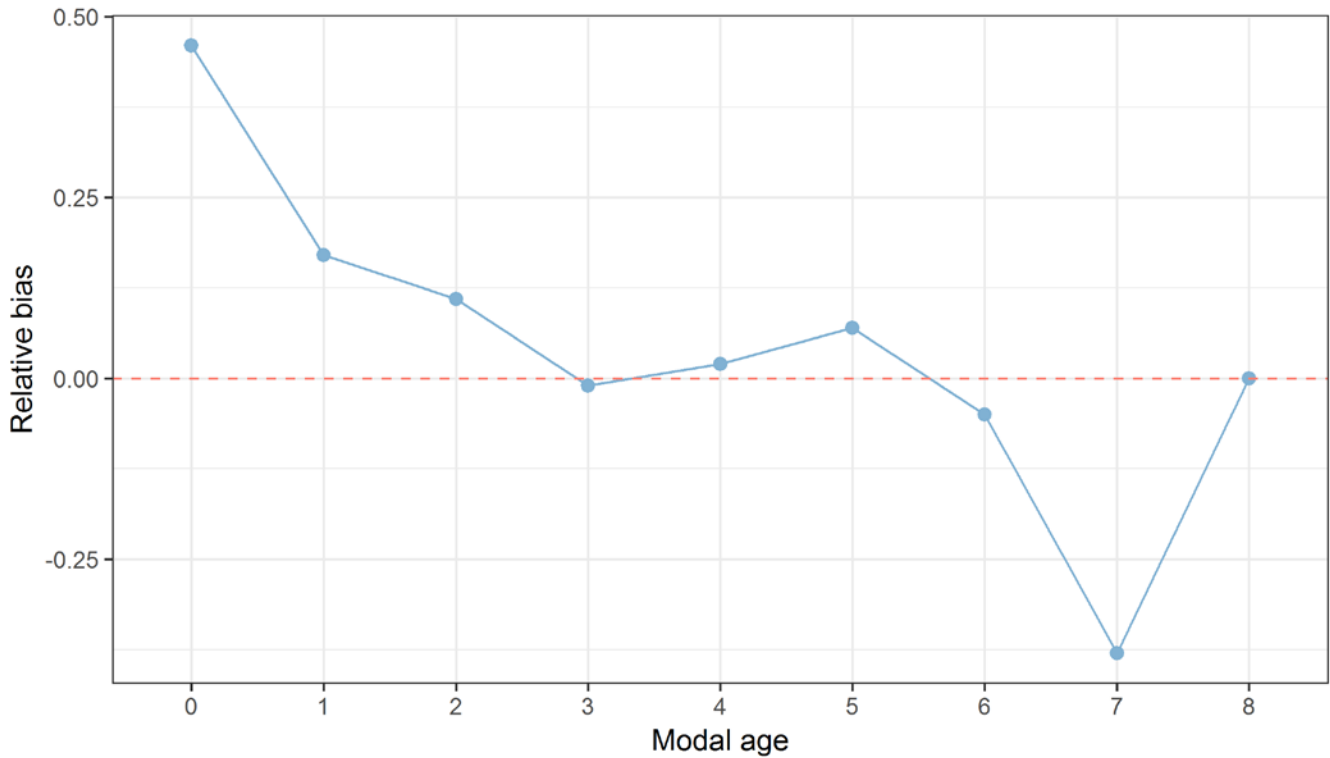


Figure 12: The relative bias by modal age as estimated by all age readers combined.

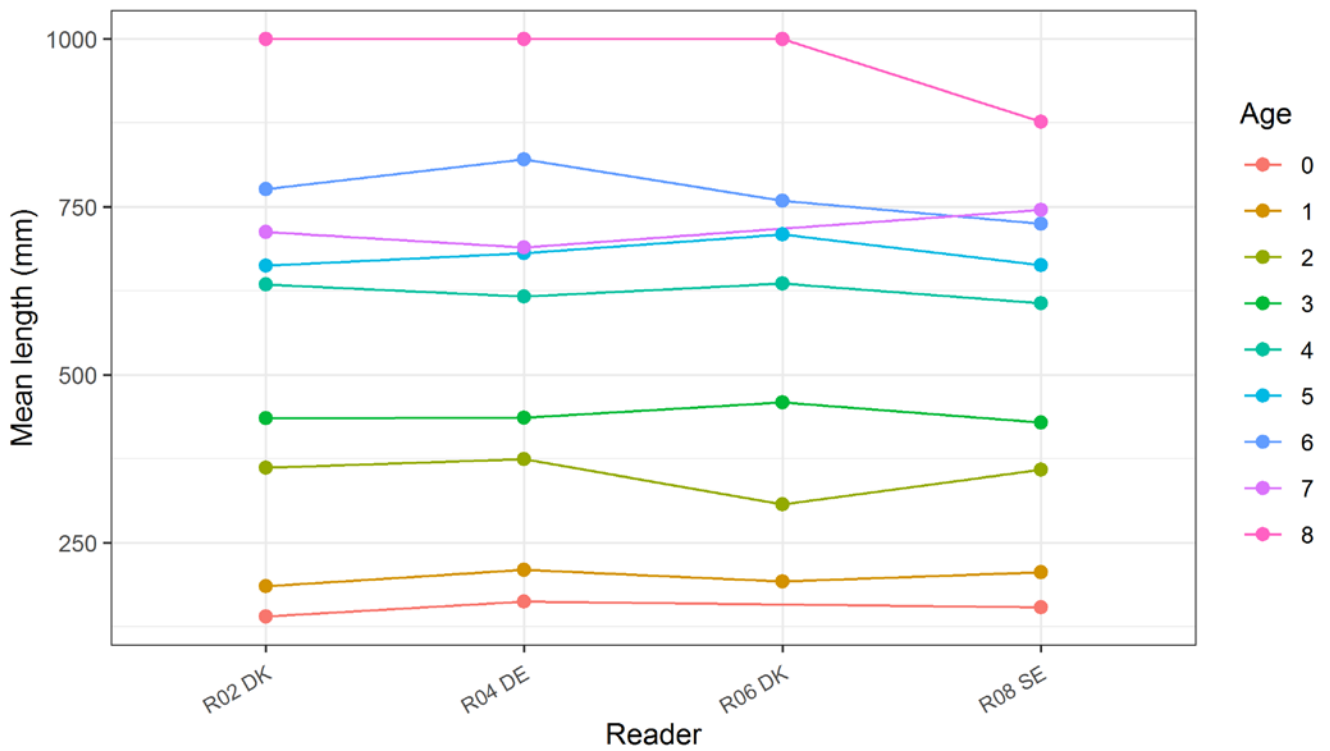


Figure 13: The mean length at age as estimated by each age reader.

Age-reading guide for Western Baltic cod – version 1, 18. August 2020

Uwe Krumme, Kate McQueen, Stefanie Haase, Britta Rotzoll

This document contains age reading guidelines to ease and standardize the international age determination of Western Baltic cod (cod2224). It combines evidence from several sources, involving

- a table using the edge zone category (opaque or translucent) by month to guide age determination,
- the mean diameter of the first ring,
- photos of age-validated otoliths (age 0, age 1, age 2, age 3),
- exemplary images following the strong 2016 cohort, and
- exemplary images of a few older cod (age 5 to age 11).

Table 1 is the supplementary Table S3 of Krumme et al. 2020, Age validation of age 0-3 wild cod *Gadus morhua* in the western Baltic Sea through mark-recapture and tetracycline marking of otoliths, Marine Ecology Progress Series 645:141-158, [DOI:10.3354/meps13380](https://doi.org/10.3354/meps13380):

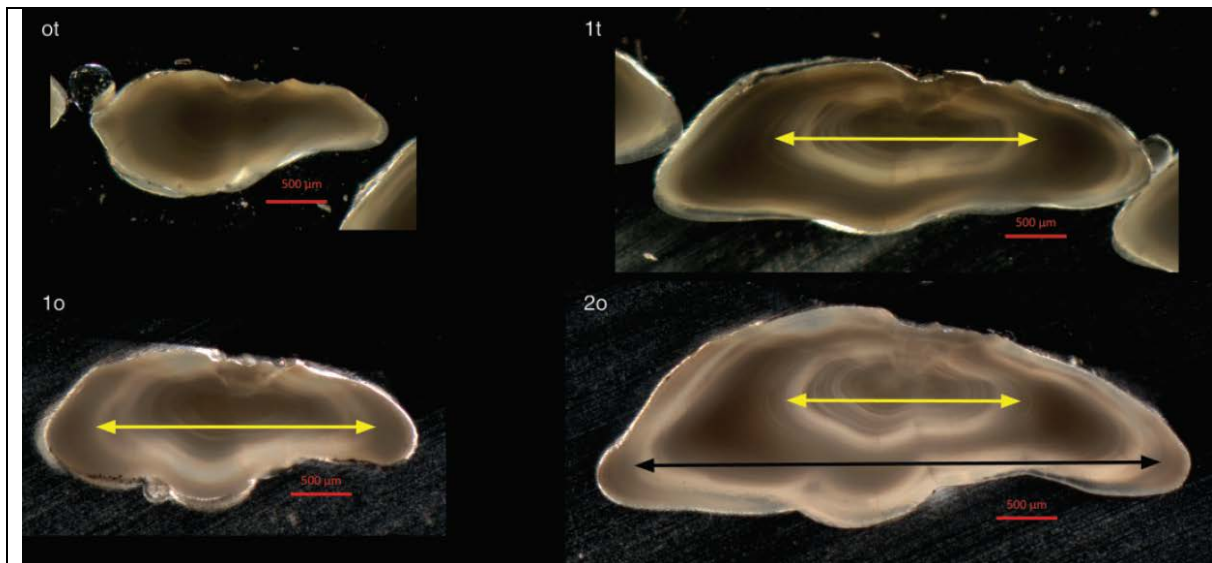
Edge-zone category refers to the number of completed translucent zones (TZ), and the edge type of the otolith, with o=opaque and t=translucent (sectioned otolith seen under transmitted light). For example, an otolith with 1 completed translucent zone and a translucent edge would be coded “1t” (McQueen et al. 2019, Age validation of juvenile cod in the western Baltic Sea. ICES Journal of Marine Science 76(2):430-441, [DOI:10.1093/icesjms/fsy175](https://doi.org/10.1093/icesjms/fsy175)). The age-reading guide for young cod (age 0-2) is taken from McQueen et al. (2019). The table is extended to include age-3 cod, following the results of Krumme et al. 2020, which directly validated the timing and frequency of the formation of the first, second and third translucent zone. UC indicates unclassifiable combinations of month and edge-zone category. Cells filled with a dash (-) indicate combinations of month and edge-zone category which are very unlikely to occur following the current understanding of patterns in TZ formation, and which were very rarely observed in the samples.

| Month | Edge-zone category | | | | | | | |
|-----------|--------------------|----|----|----|----|----|----|----|
| | 0o | 0t | 1o | 1t | 2o | 2t | 3o | 3t |
| January | - | - | 1 | - | 2 | - | 2 | - |
| February | - | - | 1 | - | 2 | - | 2 | - |
| March | - | - | 1 | - | 2 | - | 2 | - |
| April | - | - | 1 | - | 2 | - | 2 | - |
| May | - | - | 1 | - | 2 | - | 2 | - |
| June | - | - | 1 | 1 | 2 | 2 | 2 | 3 |
| July | - | - | 1 | 1 | 2 | 2 | 2 | 3 |
| August | 0 | 0 | UC | 1 | UC | 2 | UC | 3 |
| September | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 |
| October | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 |
| November | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 |
| December | 0 | 0 | 0 | 1 | 1 | 2 | 3 | 3 |

Mean diameter of the first ring

McQueen et al. 2019 found that the mean diameter of the first translucent zone (TZ) was 2.0 ± 0.5 mm. The overall average first TZ diameter estimate of 2 mm can be used as a guideline for age reading for all ages of WBC, and could help to reduce some of the uncertainty in identification of the first TZ.

However, please note that the 2 mm is a rule of thumb and lower and larger diameters can occur. The diameter on the image of a sectioned otoliths can be influenced (1) by the precision of a section in relation to the otolith core (correct slicing), and (2) it depends on growth speed of the juvenile cod in the first year.






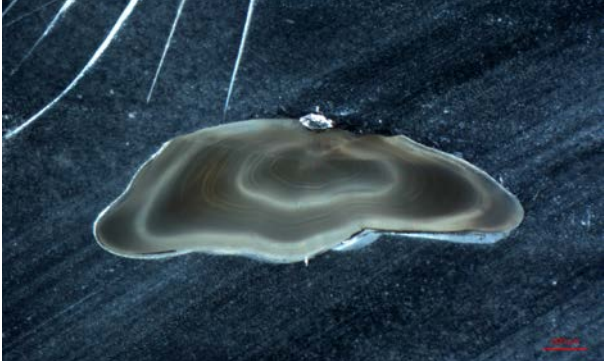

Cross sections of Western Baltic cod otoliths. Otolith sections are viewed under transmitted light so TZs appear lighter than the darker opaque zones. Yellow arrows: diameter of the first TZ; black arrow: diameter of the second TZ. Top row: translucent edge type; bottom row: opaque edge types. Otoliths are from cod captured in pound nets in Fehmarn in 2015 and 2016 [0t: 28.09.2015, total length (TL) 13 cm, age 0; 1o: 12.01.2016, TL 17 cm, age 1; 1t: 14.10.15, TL: 21 cm, age 1; 2o: 12.01.2016, TL 28 cm, age 2]. Scale bar: 500 μ m.




Photos of age-validated otoliths (age 0, age 1, age 2, age 3), and exemplary images following the strong 2016 cohort.

First, a sequential overview with selected otoliths following the strong 2016 cohort of Western Baltic cod (cod2224) from the Baltic International Trawl Survey (BITS) is given.



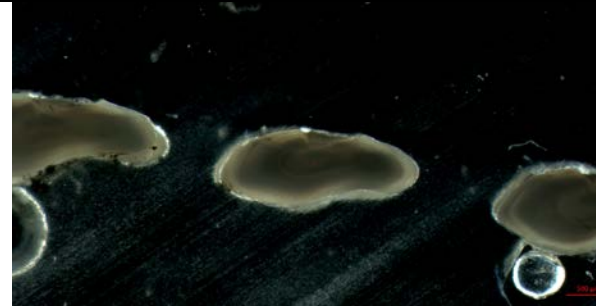

Then, starting with age 0, examples of (a) four sectioned otoliths from the BITS following the strong 2016 cohort of Western Baltic cod (cod2224) and of (b) images of age-validated Western Baltic cod from age-0 to age-3 are given.

Sequential overview with selected otoliths following the strong 2016 cohort of Western Baltic cod


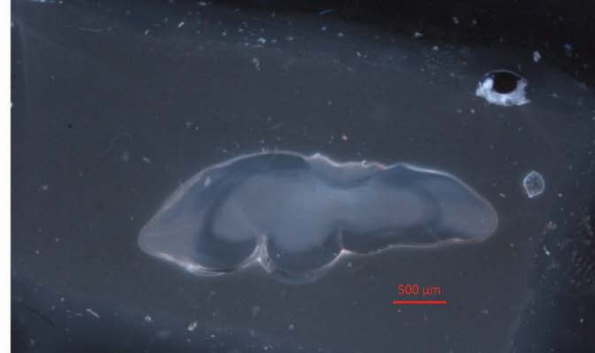
| Year | Quarter 1 | Quarter 4 |
|------|---|--|
| 2016 | In BITS Q1 age 0 cod (still being at egg or larval stage) are not caught. |  |
| | | Age 0. Total length: 16 cm. Capture date: 09.11.2016 |
| 2017 |  |  |
| | Age 1. Total length: 22 cm. Capture date: 05.03.2017 | Age 1. Total length: 28 cm. Capture date: 11.11.2017 |
| 2018 |  |  |
| | Age 2. Total length: 31 cm. Capture date: 27.02.2018 | Age 2. Total length: 35 cm. Capture date: 08.11.2018 |

| | | |
|--------------------|---|--|
| <p>2019</p> |  |  |
| | <p>Age 3. Total length: 46 cm. Capture date: 19.02.2019</p> | <p>Age 3. Total length: 57 cm. Capture date: 09.11.2019</p> |
| <p>2020</p> |  | <p>No samples yet.</p> |
| | <p>Age 4. Total length: 61 cm. Capture date: 20.02.2020</p> | |



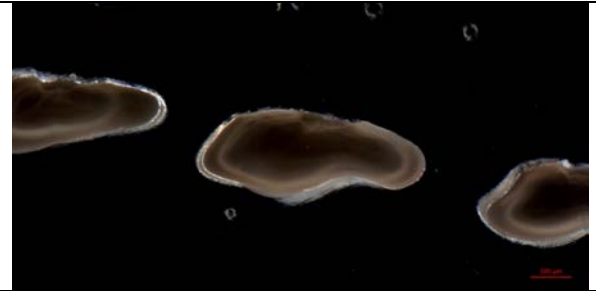
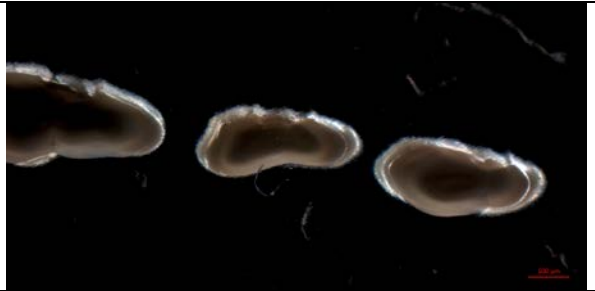




Age 0 – examples of four sectioned otoliths from the BITS of the 2016 cohort and age-validated otoliths

| | |
|---|---|
|  |  |
| <p>BITS SD22 Q4 2016 – age 0. Total length: 16 cm. Capture date: 09.11.2016</p> | <p>BITS SD22 Q4 2016 – age 0. Total length: 14 cm. Capture date: 09.11.2016</p> |
|  |  |
| <p>BITS SD22 Q4 2016 – age 0. Total length: 11 cm. Capture date: 09.11.2016</p> | <p>BITS SD22 Q4 2016 – age 0. Total length: 7 cm. Capture date: 11.11.2016</p> |

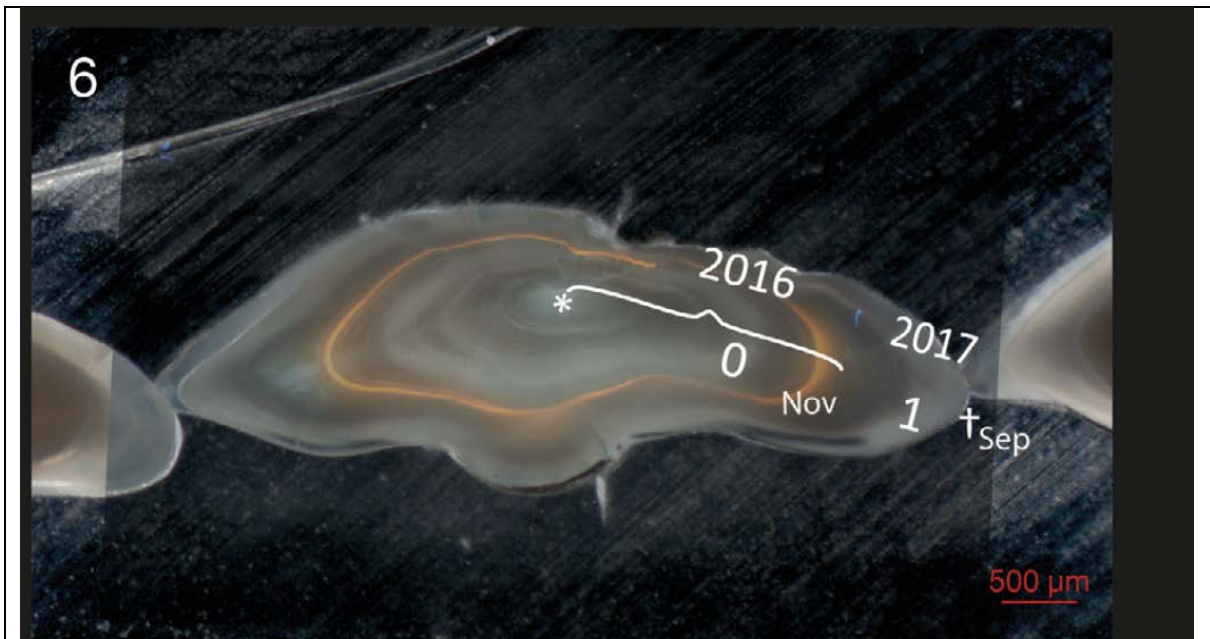
Age-validated otoliths of age 0

| | |
|---|--|
| <p>A) Fish ID 3</p>  |  |
| <p>Cross sections of an age-validated otolith from Western Baltic cod of age-0 released in October and recaptured in November 2014. Left image: light microscope image of the (polished) otolith viewed under transmitted light showing the translucent and opaque zones of the otolith used for routine age determination. Right image: the same otolith viewed with a tetracycline filter under a fluorescence microscope showing the tetracycline band. The translucent zone, laid down in summer, is indicated by #. *: birth in spring, †: recapture or death. Red dots in the light microscope image indicate the tetracycline mark visible in the image from the fluorescence microscope. Month of release and recapture is indicated. Further information for this otolith is provided in Table 2 in Plonus et al. submitted to Marine Biology.</p> | |

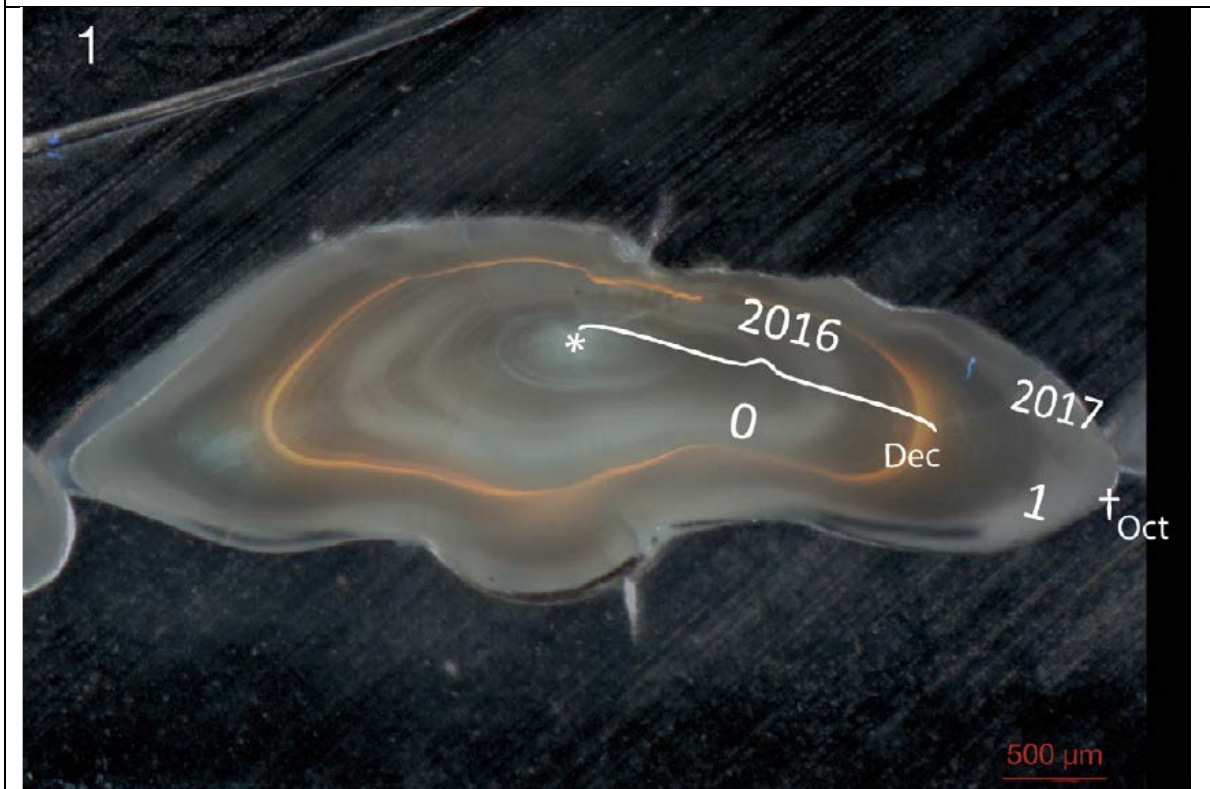
Age 1 - examples of four sectioned otoliths from the BITS of the 2016 cohort and age-validated otoliths

| | |
|---|--|
|  |  |
| <p>BITS SD22 Q1 2017 – age 1. Total length: 22 cm. Capture date: 05.03.2017</p> | <p>BITS SD22 Q1 2017 – age 1. Total length: 16 cm. Capture date: 05.03.2017</p> |
|  |  |
| <p>BITS SD22 Q1 2017 – age 1. Total length: 12 cm. Capture date: 05.03.2017</p> | <p>BITS SD22 Q1 2017 – age 1. Total length: 10 cm. Capture date: 05.03.2017</p> |
|  |  |
| <p>BITS SD22 Q4 2017 – age 1. Total length: 28 cm. Capture date: 11.11.2017</p> | <p>BITS SD22 Q4 2017 – age 1. Total length: 26 cm. Capture date: 11.11.2017</p> |
|  |  |
| <p>BITS SD22 Q4 2017 – age 1. Total length: 23 cm. Capture date: 11.11.2017</p> | <p>BITS SD22 Q4 2017 – age 1. Total length: 18 cm. Capture date: 11.11.2017</p> |

Age-validated otoliths of age 1

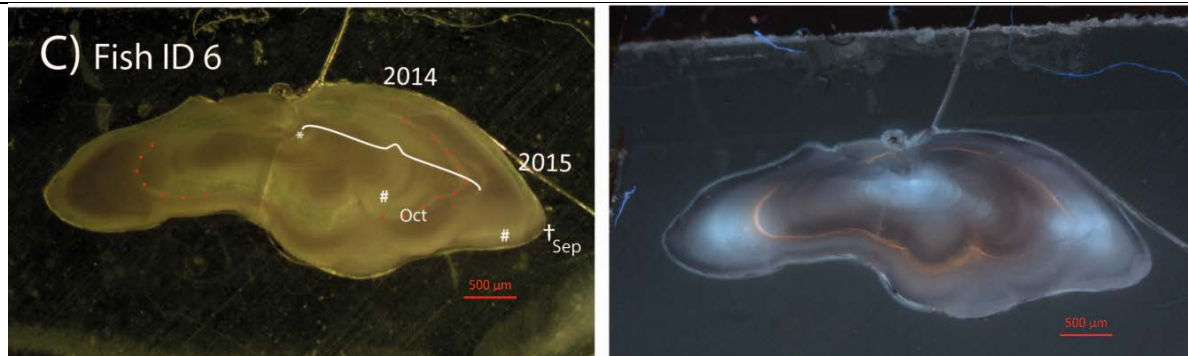


Cross section of an age-validated otolith from Western Baltic cod of age-1 recaptured in September. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 1 in Krumme et al. 2020.

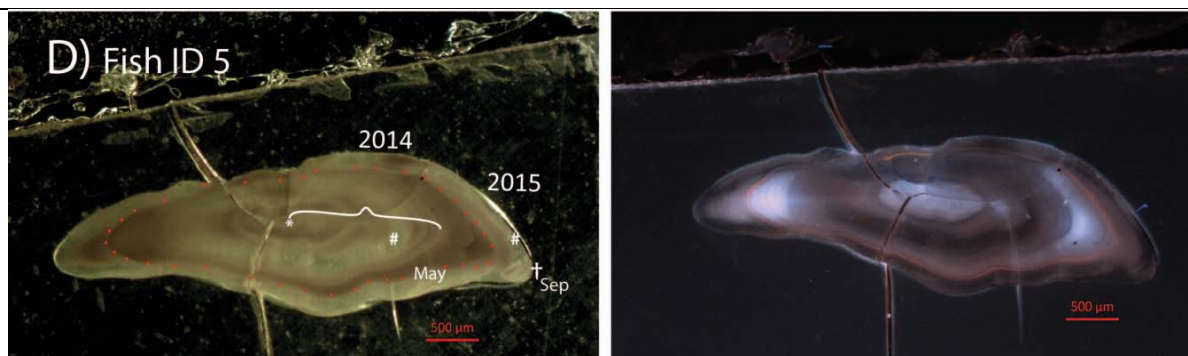


Cross section of an age-validated otolith from Western Baltic cod of age-1 recaptured in October. Cod released as age-0 and recaptured as age-1. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that

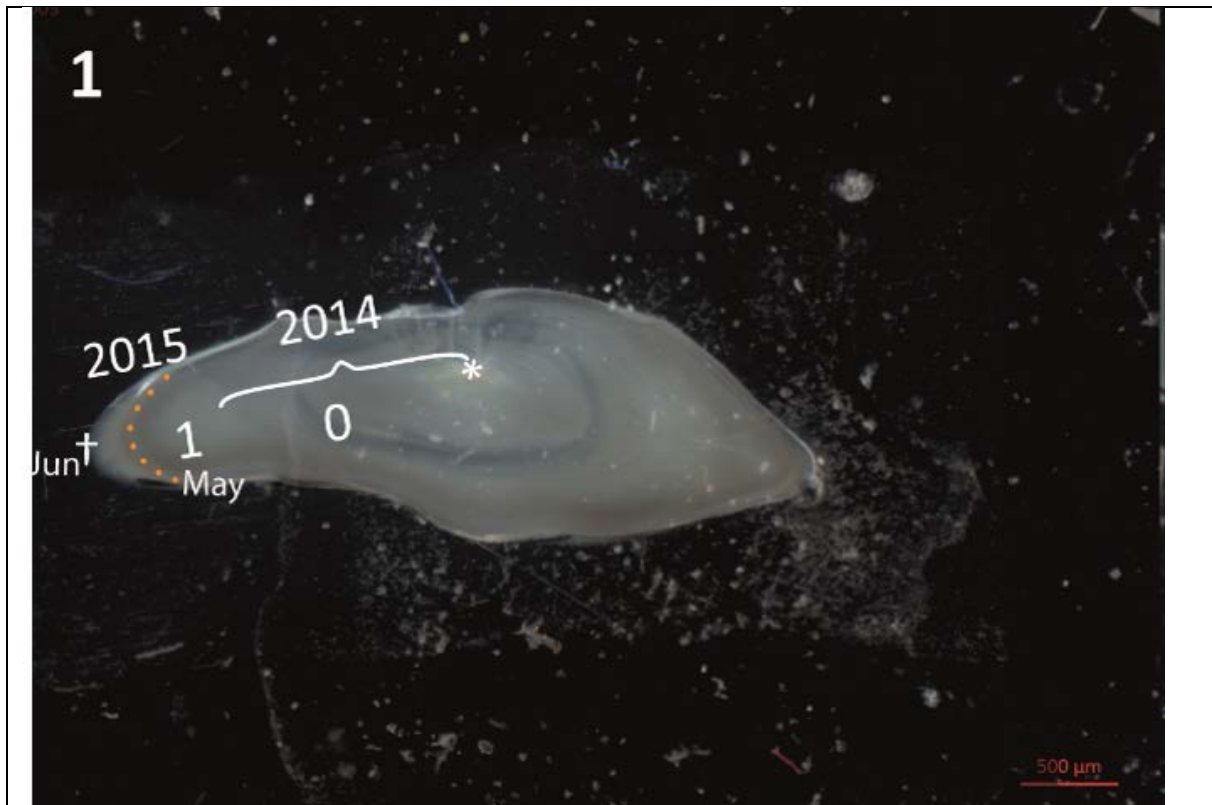
the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 2 in Krumme et al. 2020.



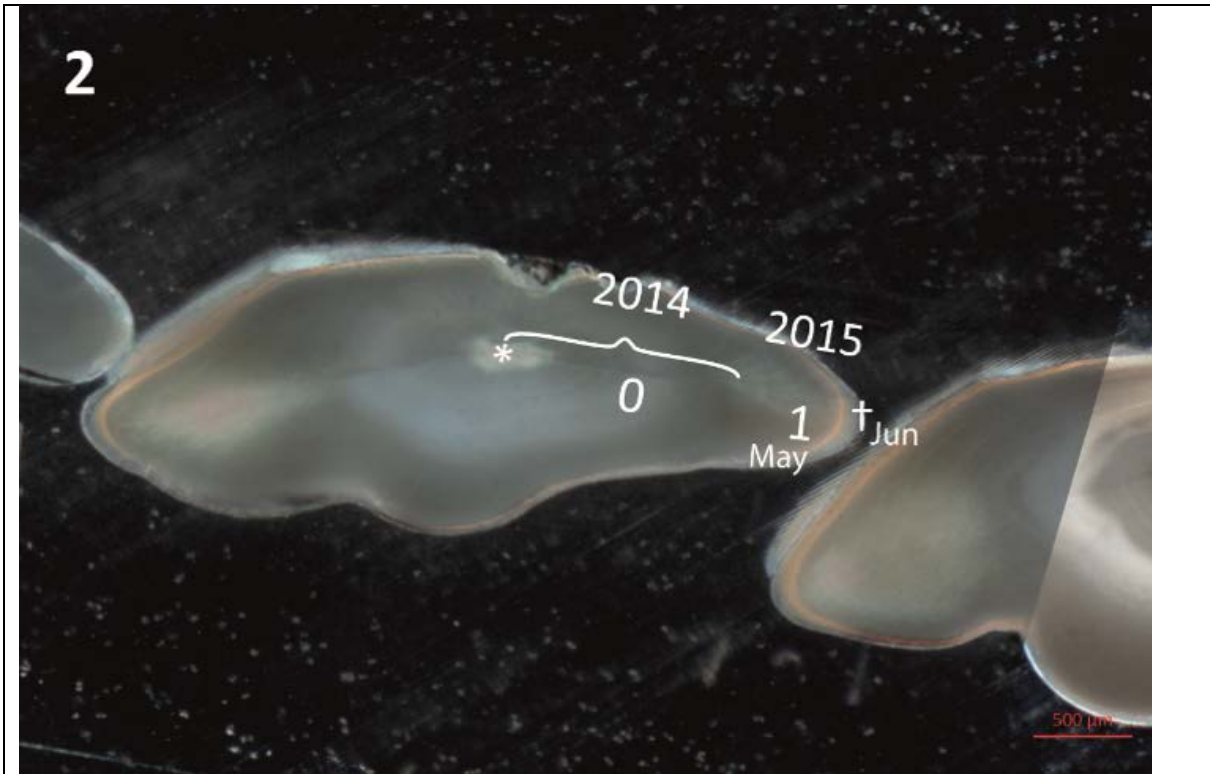
Cross sections of an age-validated otolith from Western Baltic cod, released at age-0 in October 2014 and recaptured at age-1 in September. Left image: light microscope image of the otolith viewed under transmitted light showing the translucent and opaque zones of the otolith used for routine age determination. Right image: the same otolith viewed with a tetracycline filter under a fluorescence microscope showing the tetracycline band. Curly brackets in the images on the left column indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The translucent zone, laid down in summer, is indicated by #. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a curly bracket. *: birth in spring, †: recapture or death. Red dots in the light microscope image indicate the tetracycline mark visible in the image from the fluorescence microscope. Month of release and recapture is indicated. For each otolith, further information is provided in Table 2 in Plonus et al., submitted to Marine Biology.



Cross sections of an age-validated otolith from Western Baltic cod of age-1 recaptured in September. Left image: light microscope image of the otolith viewed under transmitted light showing the translucent and opaque zones of the otolith used for routine age determination. Right image: the same otolith viewed with a tetracycline filter under a fluorescence microscope showing the tetracycline band. Curly brackets in the images on the left column indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The translucent zone, laid down in summer, is indicated by #. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a curly bracket. *: birth in spring, †: recapture or death. Red dots in the light microscope image indicate the tetracycline mark visible in the image from the fluorescence microscope. Month of release and recapture is indicated. For each otolith, further information is provided in Table 2 in Plonus et al., submitted to Marine Biology.

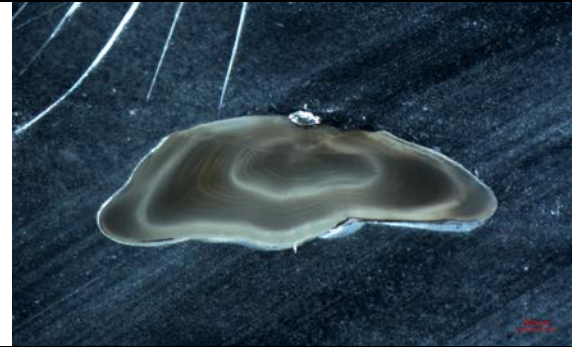





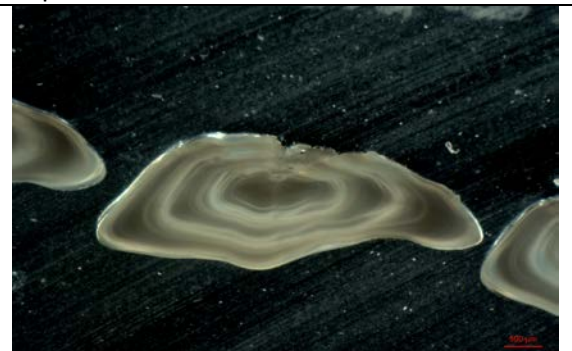



Cross section of an age-validated otolith from Western Baltic cod of age-1 recaptured in June. Example otolith tagged during translucent zone (TZ) formation. Image taken using the tetracycline filter have been overlaid onto light microscope images so that the TZs and tetracycline mark are visible in the same image. The light microscope image was taken using reflected rather than transmitted light, the TZ appears darker than the opaque zone. Orange dots indicate the approximate position of the tetracycline mark. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table S2 in the supplementary material of Krumme et al. 2020.

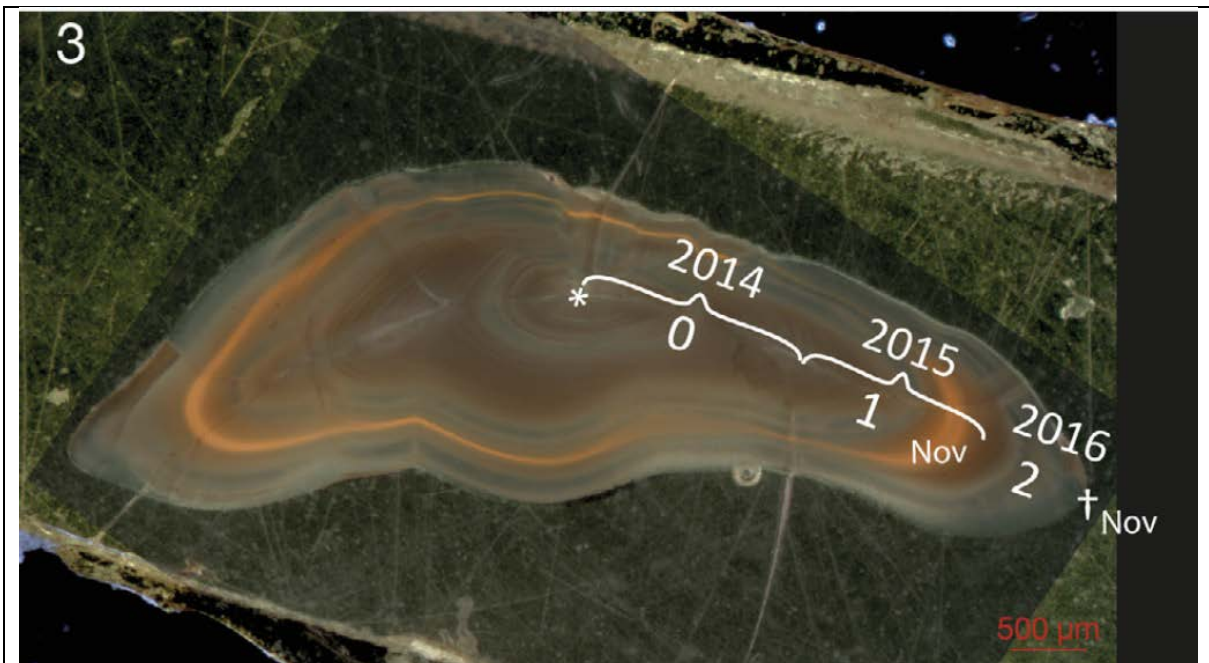


Cross section of an age-validated otolith from Western Baltic cod of age-1 recaptured in June. Example otolith tagged during translucent zone (TZ) formation. Image taken using the tetracycline filter have been overlaid onto light microscope images so that the TZs and tetracycline mark are visible in the same image. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. Further information on the fish is provided in Table S2 in the supplementary material of Krumme et al. 2020.

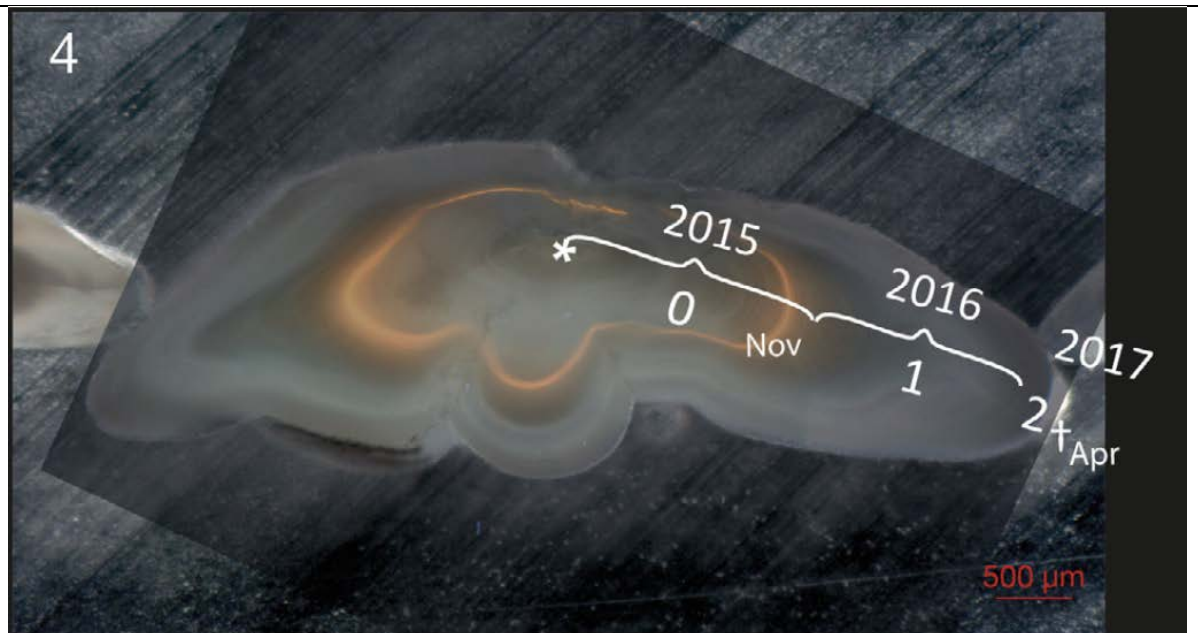
Age 2 - examples of four sectioned otoliths from the BITS of the 2016 cohort and age-validated otoliths

| | |
|---|--|
|  |  |
| <p>BITS SD22 Q1 2018 – age 2. Total length: 31 cm. Capture date: 27.02.2018</p> | <p>BITS SD22 Q1 2018 – age 2. Total length: 26 cm. Capture date: 27.02.2018</p> |
|  |  |
| <p>BITS SD22 Q1 2018 – age 2. Total length: 46 cm. Capture date: 28.02.2018</p> | <p>BITS SD22 Q1 2018 – age 2. Total length: 55 cm. Capture date: 28.02.2018</p> |
|  |  |
| <p>BITS SD22 Q4 2018 – age 2. Total length: 35 cm. Capture date: 08.11.2018</p> | <p>BITS SD22 Q4 2018 – age 2. Total length: 42 cm. Capture date: 09.11.2018</p> |
|  |  |
| <p>BITS SD22 Q4 2018 – age 2. Total length: 28 cm. Capture date: 10.11.2018</p> | <p>BITS SD22 Q4 2018 – age 2. Total length: 62 cm. Capture date: 11.11.2018</p> |

Age-validated otoliths of age 2



Cross section of an age-validated otolith from Western Baltic cod of age-2 recaptured in November. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 1 in Krumme et al. 2020.

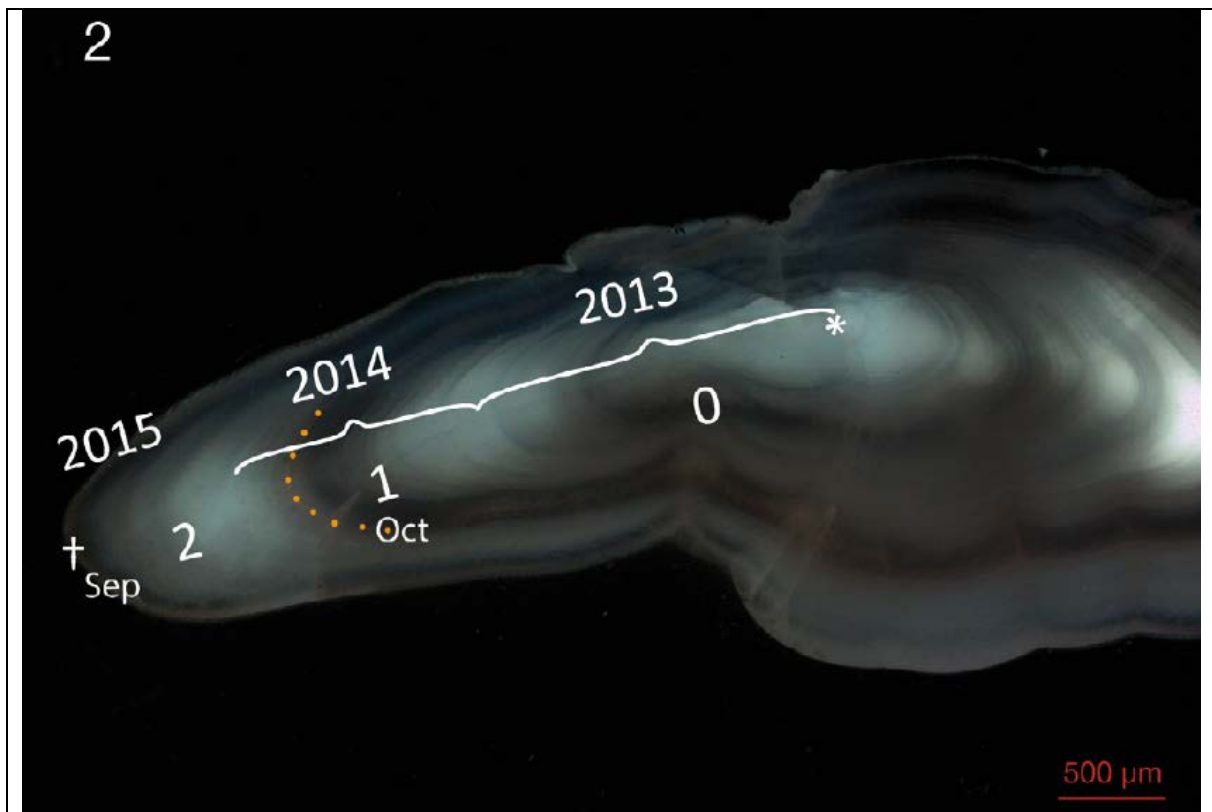


Cross section of an age-validated otolith from Western Baltic cod, released in November 2015 as age-0 and recaptured of age-2 in April 2017. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †:

recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 1 in Krumme et al. 2020.







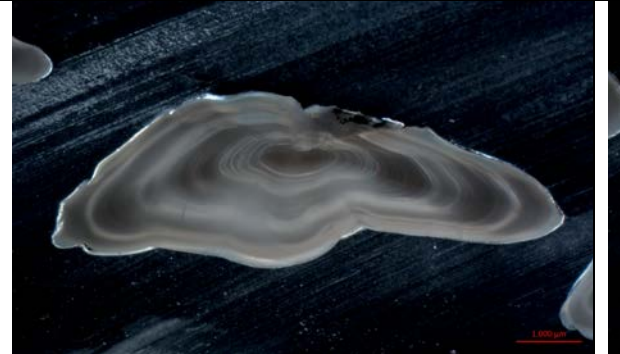



Cross section of an age-validated otolith from Western Baltic cod of age-2 recaptured in January. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 1 in Krumme et al. 2020.

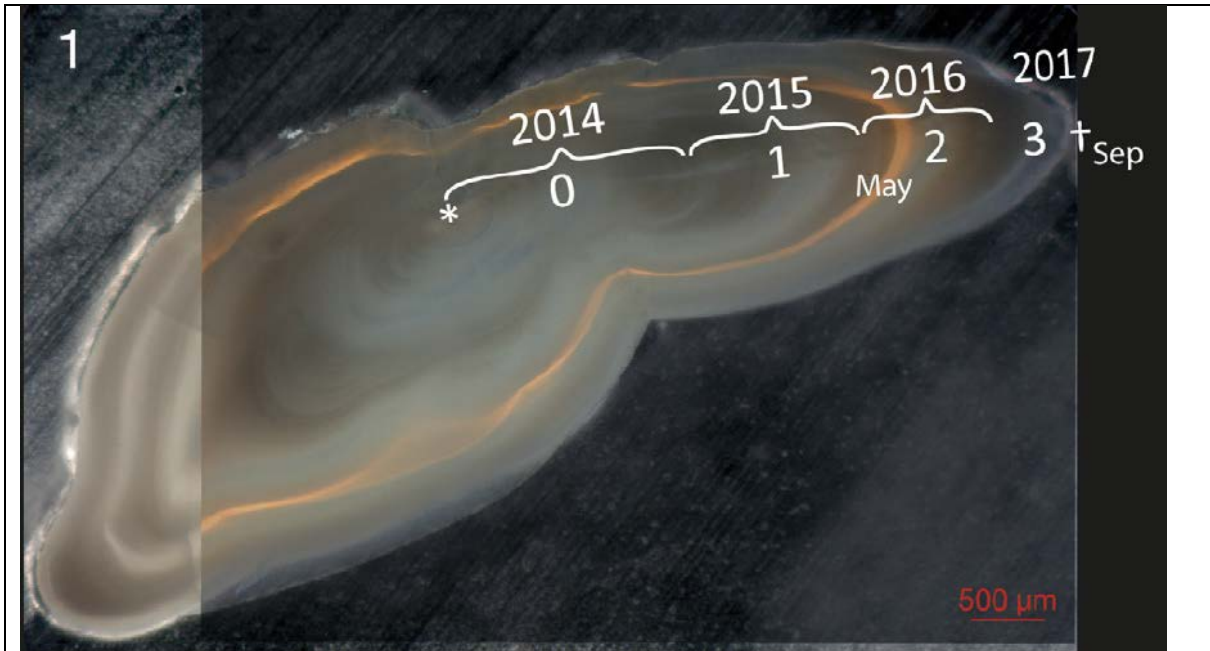


Cross section of an age-validated otolith from Western Baltic cod of age-2 recaptured in September. Cod released as age-1 and recaptured as age-2. Section was polished to a thickness of ca. 100 μm before photographing; therefore, due to the thinness of this section, the macrostructure of the otolith and the tetracycline mark can both be seen in the tetracycline filter image of this otolith, without requiring any image editing (orange dots indicate the tetracycline mark). The image was taken using the tetracycline filter and a minimal amount of transmitted light, so the opaque zones appear light and the translucent zones darker. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 2 in Krumme et al. 2020.

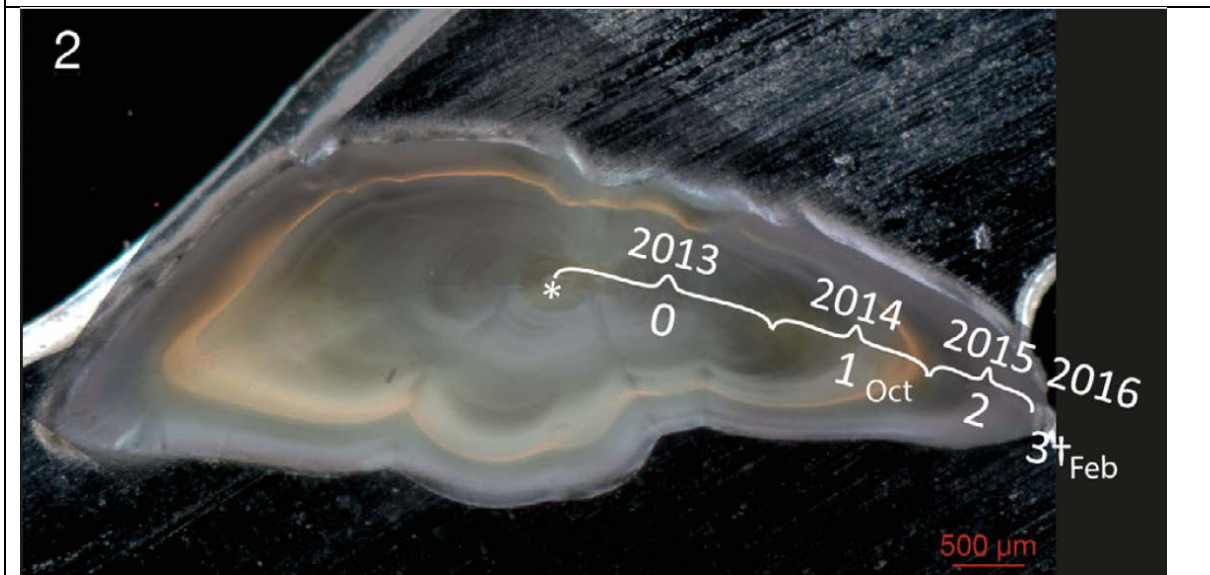
Age 3 - examples of four sectioned otoliths from the BITS of the 2016 cohort and age-validated otoliths

| | |
|---|--|
|  |  |
| <p>BITS SD22 Q1 2019 – age 3. Total length: 69 cm. Capture date: 19.02.2019</p> | <p>BITS SD22 Q1 2019 – age 3. Total length: 58 cm. Capture date: 19.02.2019</p> |
|  |  |
| <p>BITS SD22 Q1 2019 – age 3. Total length: 46 cm. Capture date: 19.02.2019</p> | <p>BITS SD22 Q1 2019 – age 3. Total length: 37 cm. Capture date: 19.02.2019</p> |
|  |  |
| <p>BITS SD22 Q4 2019 – age 3. Total length: 64 cm. Capture date: 08.11.2019</p> | <p>BITS SD22 Q4 2019 – age 3. Total length: 70 cm. Capture date: 08.11.2019</p> |
|  |  |
| <p>BITS SD22 Q4 2019 – age 3. Total length: 57 cm. Capture date: 09.11.2019</p> | <p>BITS SD22 Q4 2019 – age 3. Total length: 41 cm. Capture date: 09.11.2019</p> |

Age-validated otoliths of age 3







Cross section of an age-validated otolith from Western Baltic cod of age-3 recaptured in September. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 1 in Krumme et al. 2020.



Cross section of an age-validated otolith from Western Baltic cod of age-3 recaptured in February. An image of the otolith viewed using the tetracycline filter is overlaid onto an image of the otolith viewed using transmitted light. The overlaid tetracycline filter image has been made partially transparent so that the translucent and opaque zones of the otolith can also be seen. Brackets indicate an approximation of a year of otolith growth, consisting of a completed translucent zone with opaque material on either side. The years and the age are numbered along the axis from the core. Incomplete years at the edge are without a bracket. *: birth in spring, †: recapture or death. Month of release and recapture is indicated. For each otolith, further information is provided in Table 1 in Krumme et al. 2020.

Age 4 - examples of four sectioned otoliths from the BITS of the 2016 cohort

| | |
|---|---|
|  |  |
| <p>BITS SD22 Q1 2020 – age 4. Total length: 61 cm. Capture date: 20.02.2020</p> | <p>BITS SD22 Q1 2020 – age 4. Total length: 55 cm. Capture date: 20.02.2020</p> |
|  |  |
| <p>BITS SD22 Q1 2020 – age 4. Total length: 45 cm. Capture date: 20.02.2020</p> | <p>BITS SD22 Q1 2020 – age 4. Total length: 38cm. Capture date: 20.02.2020</p> |

Exemplary images of a few older cod (age 5 to age 11)

Examples of age 5, age 6 and age 10 cod.



Age 5, SD 22, Total length: 67 cm. Capture date: 11.11.2018



Age 6, SD 22, Total length: 69 cm. Capture date: 21.02.2020



Age 10, SD 22, Total length: 95 cm. Capture date: 21.02.2020