Retrieving the times series of input data for assessment of NEA saithe

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Background

The report from WKROUND 2010 describes better retrospective performance of the NEA saithe XSA when the age span is expanded from 3-11+ to 3-15+.

Until AFWG 2009 age 11 was used as + group. At WKROUND it was only possible to expand the age span back to 1989. Table 1 describes the characteristics of the input data files for the NEA saithe assessment until 2009 (Lowestoft format).

Table 1. Input data types and characteristics the NEA saithe assessment until 2009

<table>
<thead>
<tr>
<th>TYPE</th>
<th>NAME</th>
<th>YEAR RANGE</th>
<th>AGE RANGE</th>
<th>VARIABLE FROM YEAR TO YEAR</th>
<th>YES/NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caton</td>
<td>Catch in tonnes</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Canum</td>
<td>Catch at age in numbers</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Weca</td>
<td>Weight at age in the commercial catch</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>Yes/No - constant at age from 1960 - 1979</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>Weight at age of the spawning stock at spawning time.</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>Yes/No - assumed to be the same as weight at age in the catch</td>
<td></td>
</tr>
<tr>
<td>Mprop</td>
<td>Proportion of natural mortality before spawning</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>No – set to 0 for all ages in all years</td>
<td></td>
</tr>
<tr>
<td>Fprop</td>
<td>Proportion of fishing mortality before spawning</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>No – set to 0 for all ages in all years</td>
<td></td>
</tr>
<tr>
<td>Matprop</td>
<td>Proportion mature at age</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>Yes/No – constant ogive 1960-1984, three year running average since 1985</td>
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</tr>
<tr>
<td>Natmor</td>
<td>Natural mortality</td>
<td>1960 – last data year</td>
<td>3 – 11+</td>
<td>No – set to 0.2 for all ages in all years</td>
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</table>

Data from earlier AFWG reports and the former ICES database (IFAP) made it possible to expand the age span to 3-15+ for the whole times series, assuming some of the settings.

Table 2. Input data types and characteristics the NEA saithe assessment 2010

<table>
<thead>
<tr>
<th>TYPE</th>
<th>NAME</th>
<th>YEAR RANGE</th>
<th>AGE RANGE</th>
<th>VARIABLE FROM YEAR TO YEAR</th>
<th>YES/NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caton</td>
<td>Catch in tonnes</td>
<td>1960 – last data year</td>
<td>3 – 15+</td>
<td>Yes</td>
<td></td>
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</tbody>
</table>
### Canun file

Since catch in numbers have previously been calculated for age span 3-11+, all values had to be recalculated for the whole expanded age span. Catch in numbers for 1960-1988 was SOP adjusted to total weight | age and total catch in canum file (Table 3). For 1989-2008 unadjusted data were available from the basic assessment input files.

### Weca file

A WECA data file up to 2001 was available from the former IFAP database. It was not possible to reconstruct the original IFAP database. However it was possible to import single files in a statistical package. We assume that the latest file version covers the latest updated version. For years 1960-1988 we used this data files, while for 1989-2008 data from the basic assessment input files were available (Table 4).
<table>
<thead>
<tr>
<th>Year</th>
<th>Value</th>
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<td>1960</td>
<td>6453</td>
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<td>5981</td>
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<td>2009</td>
<td>590</td>
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</table>

|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|      |
|      | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 | 0.34 |
Acknowledgements

We wish to thank the ICES secretariat and the Library at IMR for giving us access to reports from earlier AFWG meetings. The IFAP database made it possible to retrieve the former canum and weca files as they were previously used.

Summary

This WD is meant as an explanation to how the times series input files for the assessment of NEA saithe is expanded to age 15+ at the 2010 AFWG. Table 3 and 4 includes age group 2. This age group is not used in the current assessment.

References

Wkround report