

# Assessment of North Sea atlantic cod (*Gadus morhua*)

Assessment ID:WGNSSK-CODNS-1962-2007-MINTO

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General assessment details.

| Detail             | Value   |
|--------------------|---|
| Management body    | ICES  |
| Assessment group   | Working Group on the Assessment of Demersal Stocks in the North Sea and Skagerrak |
| Assessment authors | Anonymous   |
| Assessment method  | The ADAPT approach with year effects in a catch multiplier                        |
| Publication year   | 2007  |
| Timeseries span    | 1962-2007   |
| Document           | ICES-WGNSSK-2007.pdf (pdf in database)  |
| Recorder           | MINTO   |
| Date entered       | 2008-04-11  |
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| QA/QC complete     | YES   |
| Date approved      | 2009-06-10  |

Biometrics provided. Note that the assumed timeseries to which the reference point pertains is indicated in parentheses.

|             |            |       | primary LME            | secondary LME | tertiary LME |
|-------------|------------|-------|------------------------|---------------|--------------|
|             |            |       | 22 - North Sea         | na            | na           |
| Parameter   | Value      | Units | Reference points       |               |              |
|             |            |       | Parameter              | Value         | Units        |
| F-AGE-yr-yr | 2-4        | yr-yr | Flim-1/T (F)           | 0.86          | 1/T          |
| TB-AGE-yr   | 1+         | yr    | Fpa-1/T (F)            | 0.65          | 1/T          |
| A50-yr      | 3-4        | yr    | SSBlim-MT (SSB)        | 70000         | MT           |
| M-1/T       | 0.2 for 4+ | 1/T   | SSBpa-MT (SSB)         | 150000        | MT           |
| REC-AGE     |            |       | $SSB_{2007}/SSB_{lim}$ | 0.531         |              |
| SSB-AGE-yr  |            |       | $F_{2006}/F_{lim}$     | 0.733         |              |
| SSB-SEX-sex |            |       |                        |               |              |
| M           |            |       |                        |               |              |
| L50-cm      |            |       |                        |               |              |

Time series minima and maxima

|                     | SSB    | R       | F     | TB      | Catch  |
|---------------------|--------|---------|-------|---------|--------|
| Minimum year        | 1963   | 1962    | 1963  | 1963    | 1963   |
| Maximum year        | 2007   | 2005    | 2006  | 2006    | 2006   |
| Time series minimum | 28481  | 92257   | 0.51  | 129581  | 43856  |
| Time series maximum | 252747 | 2566638 | 1.272 | 1159434 | 590678 |
| Units               | MT     | E03     | 1/T   | MT      | MT     |

