

# Assessment of North Sea herring (*Clupea harengus*)

Assessment ID:HAWG-HERRNS-1960-2007-MINTO

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/370>

Area ID: multinational-ICES-IV

General assessment details.

| Detail             | Value  |
|--------------------|--|
| Management body    | ICES   |
| Assessment group   | Herring Assessment Working Group for the Area South of 62N |
| Assessment authors | Anonymous  |
| Assessment method  | Integrated Catch-at-age Analysis                           |
| Publication year   | 2007   |
| Timeseries span    | 1960-2007  |
| Document           | ICES-HAWG-2007.pdf (pdf in database)                       |
| Recorder           | MINTO  |
| Date entered       | 2008-04-15   |
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| QA/QC complete     | YES  |
| Date approved      | 2009-06-08   |

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                     | na      | na           | na |
| Parameter   | Value          | Units | Reference points       |         |              |    |
| A50-yr      | 2              | yr    | Parameter              | Value   | Units        |    |
| SSB-AGE-yr  | 2+             | yr    | F0.1-1/T               | 0.22    | 1/T          |    |
| REC-AGE-yr  | 0              | yr    | Fpa-1/T (F)            | 0.25    | 1/T          |    |
| TB-AGE-yr   | 0+             | yr    | SSBpa-MT (SSB)         | 1300000 | MT           |    |
| F-AGE-yr-yr | 2-6            | yr-yr | SSBlim-MT (SSB)        | 800000  | MT           |    |
| M-1/T       | 0.1 for 4+     | 1/T   | $SSB_{2006}/SSB_{lim}$ | 1.510   |              |    |
| SSB-SEX-sex |                |       |                        |         |              |    |
| M           |                |       |                        |         |              |    |
| L50-cm      |                |       |                        |         |              |    |

| Time series minima and maxima |         |           |        |         |         |
|-------------------------------|---------|-----------|--------|---------|---------|
|                               | SSB     | R         | F      | TB      | Catch   |
| Minimum year                  | 1960    | 1960      | 1960   | 1960    | 1960    |
| Maximum year                  | 2006    | 2007      | 2006   | 2006    | 2006    |
| Time series minimum           | 47975   | 2732610   | 0.053  | 211261  | 11000   |
| Time series maximum           | 2183501 | 109000000 | 1.4676 | 4792818 | 1168800 |
| Units                         | MT      | E03       | 1/T    | MT      | MT      |

