

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

Assessment ID:WGBFAS-HERR30-1972-2007-JENNINGS

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/30>

Area ID: multinational-ICES-30

General assessment details.

| Detail             | Value                                     |
|--------------------|---|
| Management body    | ICES                                      |
| Assessment group   | Baltic Fisheries Assessment Working Group |
| Assessment authors | Anon                                      |
| Assessment method  | Extended Survivor Analysis                |
| Publication year   | 2007                                      |
| Timeseries span    | 1972-2007                                 |
| Document           | ICES-WGBFAS-2007.pdf (pdf in database)    |
| Recorder           | JENNINGS                                  |
| Date entered       | 2008-11-18                                |
| Date last loaded   | 2010-03-10                                |
| QA/QC complete     | YES                                       |
| Date approved      | 2009-05-28                                |

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

|  | primary LME     | secondary LME | tertiary LME |
|--|-----------------|---------------|--------------|
|  | 23 - Baltic Sea | na            | na           |

  

| Parameter   | Value     | Units | Reference points       |        |       |
|-------------|-----------|-------|------------------------|--------|-------|
|             |           |       | Parameter              | Value  | Units |
| SSB-AGE-yr  | AVAILABLE | yr    | Flim-1/T (F)           | 0.3    | 1/T   |
| REC-AGE-yr  | 1         | yr    | Fpa-1/T (F)            | 0.21   | 1/T   |
| F-AGE-yr-yr | 3 to 7    | yr-yr | SSBlim-MT (SSB)        | 145000 | MT    |
| TB-AGE-yr   | 1+        | yr    | SSBpa-MT (SSB)         | 200000 | MT    |
| A50-yr      | AVAILABLE | yr    | $SSB_{2006}/SSB_{lim}$ | 2.213  |       |
| M-1/T       | 0.2       | 1/T   | $F_{2006}/F_{lim}$     | 0.564  |       |
| SSB-SEX-sex |           |       |                        |        |       |
| M           |           |       |                        |        |       |
| L50-cm      |           |       |                        |        |       |

| Time series minima and maxima |        |          |        |        |       |
|-------------------------------|--------|----------|--------|--------|-------|
|                               | SSB    | R        | F      | TB     | Catch |
| Minimum year                  | 1973   | 1972     | 1973   | 1973   | 1973  |
| Maximum year                  | 2006   | 2006     | 2006   | 2006   | 2006  |
| Time series minimum           | 99048  | 501629   | 0.0724 | 128629 | 13700 |
| Time series maximum           | 424424 | 16311979 | 0.2366 | 537441 | 68635 |
| Units                         | MT     | E03      | 1/T    | MT     | MT    |

