

# Assessment of Macquarie Island patagonian toothfish (*Dissostichus eleginoides*)

Assessment ID:CSIRO-PTOOTHFISHMI-1975-2010-FAY

Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/472>

Area ID: Australia-AFMA-MI

General assessment details.

| Detail             | Value  |
|--------------------|--|
| Management body    | AFMA   |
| Assessment group   | Commonwealth Scientific and Industrial Research Organization |
| Assessment authors | Fay, G.  |
| Assessment method  | Stock Synthesis v3.0 model                                   |
| Publication year   | 2010   |
| Timeseries span    | 1975-2010  |
| Document           | FAY.PTOOTHFISHMACCA.2010.pdf (pdf in database)               |
| Recorder           | FAY  |
| Date entered       | 2011-01-18   |
| Date last loaded   | 2011-06-14   |
| QA/QC complete     | YES  |
| Date approved      | 2011-06-10   |

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

| primary LME                  |  |  | secondary LME | tertiary LME |
|------------------------------|--|--|---------------|--------------|
| -96 - Subantarctic High Seas |  |  | na            | na           |

  

| Parameter    | Value | Units | Reference points       |           |         |
|--------------|-------|-------|------------------------|-----------|---------|
| Parameter    | Value | Units | Parameter              | Value     | Units   |
| SSB-AGE-yr   | 14    | yr    | Fmsy-1/yr (F)          | 0.0580997 | 1/yr    |
| SSB-SEX-sex  | 1     | sex   | Fref-1/yr              | 0.0258653 | 1/yr    |
| REC-AGE-yr   | 0     | yr    | Fcurrent-1/yr          | 0.0112664 | 1/yr    |
| TB-AGE-yr    | 1+    | yr    | NATMORT-1/yr (M)       | 0.13      | 1/yr    |
| L50-cm       | 89    | cm    | SSBmsy-MT (SSB)        | 869.707   | MT      |
| M-1/yr       | 0.13  | 1/yr  | MSY-MT (TB)            | 184.369   | MT      |
| NATMORT-1/yr | 0.13  | 1/yr  | BH-h-dimless           | 0.75      | dimless |
| F-AGE-yr     |       |       | $F_{2009}/F_{msy}$     | 0.194     |         |
| M            |       |       | $SSB_{2010}/SSB_{msy}$ | 2.305     |         |
| A50-yr       |       |       |                        |           |         |

| Time series minima and maxima |         |         |          |         |            |
|-------------------------------|---------|---------|----------|---------|------------|
|                               | SSB     | R       | F        | TB      | Catch      |
| Minimum year                  | 1975    | 1975    | 1975     | 1975    | 1975       |
| Maximum year                  | 2010    | 2010    | 2009     | 2010    | 2009       |
| Time series minimum           | 1964.96 | 204.02  | 0        | 5994.16 | 0          |
| Time series maximum           | 3708.59 | 1230.06 | 0.115663 | 9727.9  | 926.048767 |
| Units                         | MT      | E03     | 1/yr     | MT      | MT         |

