

Assessment of Sub-Antarctic southern hake (*Merluccius australis*)

Assessment

ID:NZMFishMIDDEPTHSWG-SOUTHHAKESA-1975-2007-JENSEN
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/181>

Area ID: New Zealand-MFish-SA

General assessment details.

| Detail | Value |
|--------------------|--|
| Management body | MFish |
| Assessment group | Middle Depths Working Group |
| Assessment authors | Cordue, PatrickL. |
| Assessment method | CASAL |
| Publication year | |
| Timeseries span | 1975-2007 |
| Document | CORDUEperscomm.pdf (pdf not in database) |
| Recorder | JENSEN |
| Date entered | 2009-03-11 |
| Date last loaded | 2010-07-20 |
| QA/QC complete | NO |
| Date approved | |

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

| primary LME | | | secondary LME | | tertiary LME |
|------------------------|-------|-------|------------------------|------------|--------------|
| 46 - New Zealand Shelf | | | na | | na |
| Parameter | Value | Units | Reference points | | |
| REC-AGE-yr | 1 | yr | Parameter | Value | Units |
| TB-AGE-yr | 1 | yr | Fmsy-1/yr (F) | 0.307 | 1/yr |
| A50-yr | 7.25 | yr | MSY-MT (TB) | 5810.2831 | MT |
| M-1/yr | 0.18 | 1/yr | SSBmsy-MT (SSB) | 14153.0846 | MT |
| SSB-AGE-yr | | | SSB0-MT (SSB) | 65951 | MT |
| SSB-SEX-sex | | | BH-h-dimless | 0.9 | dimless |
| F-AGE-yr | | | F_{2007}/F_{msy} | 0.107 | |
| M | | | SSB_{2007}/SSB_{msy} | 2.911 | |
| L50-cm | | | | | |

| Time series minima and maxima | | | | | |
|-------------------------------|---------|-------|-------------|---------|-------|
| | SSB | R | F | TB | Catch |
| Minimum year | 1975 | 1975 | 1975 | 1975 | 1975 |
| Maximum year | 2007 | 2006 | 2007 | 2007 | 2007 |
| Time series minimum | 41198.1 | 1480 | 0.004012136 | 56399.5 | 120 |
| Time series maximum | 93878.8 | 30300 | 0.04123631 | 129739 | 3260 |
| Units | MT | E03 | 1/yr | MT | MT |

