

# Assessment of Northern Argentina argentine hake (*Merluccius hubbsi*)

Assessment ID:INIDEP-ARGHAKENARG-1985-2007-Parma  
Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/104>

Area ID: Argentina-CFP-ARG-N

General assessment details.

| Detail             | Value                                                     |
|--------------------|-----------------------------------------------------------|
| Management body    | CFP                                                       |
| Assessment group   | Instituto Nacional de Investigacion y Desarrollo Pesquero |
| Assessment authors | Irusta, Gabriela                                          |
| Assessment method  | Virtual Population Analysis                               |
| Publication year   | 2007                                                      |
| Timeseries span    | 1985-2007                                                 |
| Document           | Irusta-hake-N-2007.pdf (pdf in database)                  |
| Recorder           | Parma                                                     |
| Date entered       | 2008-12-11                                                |
| Date last loaded   | 2010-07-13                                                |
| QA/QC complete     | YES                                                       |
| Date approved      | 2009-04-23                                                |

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

| primary LME           |       |       | secondary LME          | tertiary LME |       |
|-----------------------|-------|-------|------------------------|--------------|-------|
| 14 - Patagonian Shelf |       |       | na                     | na           |       |
|                       |       |       | Reference points       |              |       |
|                       |       |       | Parameter              | Value        | Units |
| Parameter             | Value | Units | Fmax-1/yr (F)          | 0.2978       | 1/yr  |
| SSB-SEX-sex           | 0     | sex   | Fmsy-1/yr (F)          | 0.4322       | 1/yr  |
| REC-AGE-yr            | 1     | yr    | NATMORT-1/yr (M)       | 0.3          | 1/yr  |
| F-AGE-yr-yr           | 3-6   | yr-yr | F40%-1/T               | 0.18791      | 1/T   |
| TB-AGE-yr             | 1+    | yr    | SSBmsy-MT (SSB)        | 429200       | MT    |
| A50-yr                | 2.62  | yr    | MSY-MT (TB)            | 169416       | MT    |
| M-1/yr                | 0.3   | 1/yr  | Umsy-ratio (U)         | 0.28133      | ratio |
| NATMORT-1/yr          | 0.3   | 1/yr  | Blim-MT (TB)           | 99764        | MT    |
| SSB-AGE-yr            |       |       | Bmsy-MT (TB)           | 602198.00    | MT    |
| M                     |       |       | Brebuild-MT (TB)       | 200000.00    | MT    |
| L50-cm                |       |       | Bbuf-MT (TB)           | 99764        | MT    |
|                       |       |       | $TB_{2007}/B_{msy}$    | 0.189        |       |
|                       |       |       | $F_{2007}/F_{msy}$     | 1.261        |       |
|                       |       |       | $SSB_{2007}/SSB_{msy}$ | 0.163        |       |

| Time series minima and maxima |        |        |        |        |        |
|-------------------------------|--------|--------|--------|--------|--------|
|                               | SSB    | R      | F      | TB     | Catch  |
| Minimum year                  | 1986   | 1985   | 1986   | 1986   | 1986   |
| Maximum year                  | 2007   | 2006   | 2007   | 2007   | 2007   |
| Time series minimum           | 52371  | 162065 | 0.4208 | 106288 | 47723  |
| Time series maximum           | 472775 | 730545 | 1.6097 | 571523 | 221201 |
| Units                         | MT     | E03    | 1/yr   | MT     | MT     |

