

# Assessment of Pacific Coast longnose skate (*Raja rhina*)

Assessment ID: NWFSC-LNOSESKAPCOAST-1915-2007-BRANCH  
 Issue URL: <http://www.marinebiodiversity.ca/RAMlegacy/ramlegacy-bug-reporting/41>

Area ID: USA-NMFS-PCOAST

General assessment details.

| Detail             | Value  |
|--------------------|--|
| Management body    | NMFS   |
| Assessment group   | Northwest Fisheries Science Center                             |
| Assessment authors | Gertseva VV  |
| Assessment method  | Stock Synthesis v2.0 model                                     |
| Publication year   | 2008   |
| Timeseries span    | 1915-2007  |
| Document           | NWFSC-LNOSESKAPCOAST-2008-Longnose skate.pdf (pdf in database) |
| Recorder           | BRANCH   |
| Date entered       | 2008-11-23   |
| Date last loaded   | 2009-06-02   |
| QA/QC complete     | YES  |
| Date approved      | 2009-06-02   |

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

| primary LME            |       |       | secondary LME         | tertiary LME |         |
|------------------------|-------|-------|-----------------------|--------------|---------|
| 3 - California Current |       |       | na                    | na           |         |
|                        |       |       | Reference points      |              |         |
|                        |       |       | Parameter             | Value        | Units   |
| Parameter              | Value | Units | Blim-MT (TB)          | 4617         | MT      |
| SSB-SEX-sex            | 1     | sex   | Bmsy-MT (TB)          | 2626         | MT      |
| REC-AGE-yr             | 0     | yr    | Fmsy-1/yr (F)         | 0.027        | 1/yr    |
| F-AGE-yr-yr            | 2+    | yr-yr | SSB0-MT (SSB)         | 7034         | MT      |
| TB-AGE-yr              | 0+    | yr    | R0-E03 (R )           | 15454        | E03     |
| L50-cm                 | 120   | cm    | SSBtarget-MT (SSB)    | 2814         | MT      |
| M-1/yr                 | 0.2   | 1/yr  | SSBmin-ratio (SSB)    | 0.25         | ratio   |
| SSB-AGE-yr             |       |       | Ftarget-1/yr (F)      | 0.0257       | 1/yr    |
| M                      |       |       | SPRtarget-ratio (SPR) | 0.4          | ratio   |
| A50-yr                 |       |       | MSY-MT (TB)           | 1268         | MT      |
|                        |       |       | BH-h-dimless          | 0.4          | dimless |
|                        |       |       | $TB_{2007}/B_{msy}$   | 27.120       |         |
|                        |       |       | $F_{2007}/F_{msy}$    | 0.800        |         |

| Time series minima and maxima |         |         |        |         |         |
|-------------------------------|---------|---------|--------|---------|---------|
|                               | SSB     | R       | F      | TB      | Catch   |
| Minimum year                  | 1915    | 1915    | 1915   | 1915    | 1915    |
| Maximum year                  | 2007    | 2007    | 2007   | 2007    | 2007    |
| Time series minimum           | 4617.13 | 12918.1 | 0      | 70670.6 | 0       |
| Time series maximum           | 7034.32 | 15454.2 | 0.0688 | 90955.2 | 3212.68 |
| Units                         | MT      | E03     | ratio  | MT      | MT      |

