Scenarios for Preliminary Runs of the western South Atlantic Humpback Whale Assessment Model

Modeling Scenarios

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| Scenario | Absolute Abundance | Target Year | Growth rate estimate | Indices of Abundance | Modern Whaling Catches | Pre-Modern Whaling Catches | Struck and lost rate | Recent Anthropogenic Mortality | Observations |
| 1 | N(2005)=6404, CV=0.12 | 2005 | Yes | None | Core catches | None | None | None | This scenario is equivalent to the Base Case in Zerbini et al., 2011 |
| 2 | N(2008)=14264, CV=0.08 and N(2012)=20389, CV=0.07 | 2008 | No | None | Core catches | None | None | None | This scenario updates the abundance estimates and assumes the trend in population size comes from the difference in abundances between 2008 and 2012. |
| 3 | N(2008)=14264, CV=0.08 and N(2012)=20389, CV=0.07 | 2008 | Yes | None | Core catches | None | None | None | This scenario is the same as (2) but investigates the effect of adding the estimated growth rate between 1995 and 1998. |
| 4 | N(2008)=14264, CV=0.08 and N(2012)=20389, CV=0.07 | 2008 | No | Pavanato et al. (2017) | Core catches | None | None | None | This scenario is the same as (2) but trend is given by an index of abudance computed from aerial survey is the breeding ground. |
| 5 | N(2008)=14264, CV=0.08 and N(2012)=20389, CV=0.07 | 2008 | No | None | Core Catches | Max Historical Catches | None | None | This scenario is the same as (2) but adds the pre-modern whaling catches (maximum numbers) |
| 6 | N(2008)=14264, CV=0.08 and N(2012)=20389, CV=0.07 | 2008 | No | None | Core Catches | Max Historical Catches | U(1-1.12) until 1935 and zero after that | None | This scenario is same as (5) but adds an estimate of the struck and lost rates |
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