

Author's Accepted Manuscript

Gigantic oocytes in the deep sea black coral *Dendrobathypathes grandis* (Antipatharia) from the Mar del Plata submarine canyon area (southwestern Atlantic)

Daniel Lauretta, Pablo E. Penchaszadeh



PII: S0967-0637(17)30043-2
DOI: <http://dx.doi.org/10.1016/j.dsr.2017.08.011>
Reference: DSRI2827

To appear in: *Deep-Sea Research Part I*

Received date: 2 February 2017
Revised date: 25 August 2017
Accepted date: 26 August 2017

Cite this article as: Daniel Lauretta and Pablo E. Penchaszadeh, Gigantic oocytes in the deep sea black coral *Dendrobathypathes grandis* (Antipatharia) from the Mar del Plata submarine canyon area (southwestern Atlantic), *Deep-Sea Research Part I*, <http://dx.doi.org/10.1016/j.dsr.2017.08.011>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Title: Gigantic oocytes in the deep sea black coral *Dendrobathypathes grandis* (Antipatharia) from the Mar del Plata submarine canyon area (southwestern Atlantic)

Authors: DANIEL LAURETTA, and PABLO E. PENCHASZADEH.

Address: Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”-CONICET. Av. Ángel Gallardo 470, Buenos Aires, Argentina.

Corresponding author: Daniel Laretta. dlaretta@gmail.com, Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”-CONICET. Av. Ángel Gallardo 470, Buenos Aires, Argentina. (5411) 4982 – 0306 Int. 138.

Abstract

The black coral *Dendrobathypathes grandis* (Cnidaria: Antipatharia) is studied for the first time in the southwestern Atlantic off Argentina. This is the only antipatharian reported from the Atlantic between 35°S and 54°S. Eleven specimens were collected at depths of 819 m to 2204 m during three expeditions to the Mar del Plata submarine canyon (2012-2013); seven were females. The species is gonochoric, and the polyps in female colonies contain up to nine oocytes per polyp, which can reach 1500 μm in diameter. In contrast, the largest oocyte currently reported for antipatharians is 500 μm , and usual diameters do not exceed 200 μm . These large oocytes have over 20 times more volume than the biggest oocyte reported, but over 800 times more volume when compared with the common oocyte size of the group. Sperm size and morphology is similar to previous data from other species. As in previous studies, neither embryos nor larvae were found in

Download English Version:

<https://daneshyari.com/en/article/5764612>

Download Persian Version:

<https://daneshyari.com/article/5764612>

[Daneshyari.com](https://daneshyari.com)