



UvA-DARE (Digital Academic Repository)

Diversity and abundance of pteropods and heteropods along a latitudinal gradient across the Atlantic Ocean

Burridge, A.K.; Goetze, E.; Wall-Palmer, D.; Le Double, S.L.; Huisman, J.; Peijnenburg, K.T.C.A.

Published in:
Progress in Oceanography

DOI:
[10.1016/j.pocean.2016.10.001](https://doi.org/10.1016/j.pocean.2016.10.001)

[Link to publication](#)

Citation for published version (APA):
Burridge, A. K., Goetze, E., Wall-Palmer, D., Le Double, S. L., Huisman, J., & Peijnenburg, K. T. C. A. (2017). Diversity and abundance of pteropods and heteropods along a latitudinal gradient across the Atlantic Ocean. *Progress in Oceanography*, 158, 213-223. <https://doi.org/10.1016/j.pocean.2016.10.001>

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Supplementary Table 1. Formulae used to calculate the biomass of euthecosomes and gymnosomes by dry weight, as adjusted from Bednaršek et al. (2012)*. L = shell length [mm], D = shell diameter [mm].

Species	Formula for dry weight [mg/ind.]	L or D [mm]	Remarks if different from Bednaršek et al. (2012)
<i>Cavolinia inflexa</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	7	
<i>Cavolinia uncinata</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	6.5	
<i>Cavolinia gibbosa</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	6.5	<i>C. uncinata</i> size used; <i>C. gibbosa</i> was not indicated
<i>Cavolinia</i> sp juv	$0.28 \cdot 0.2152 \cdot L^{2.293}$	6.2	
<i>Diacavolinia</i> sp	$0.28 \cdot 0.2152 \cdot L^{2.293}$	4	<i>Cavolinia</i> formula and <i>C. longirostris</i> f. <i>strangulata</i> size used
<i>Clio cuspidata</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	8	No fully grown specimens: mean L adjusted from 20 to 8 mm
<i>Clio pyramidata pyramidata/lanceolata</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	8	Mean L adjusted from 20 to 8 mm
<i>Clio pyramidata sulcata</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	8	Mean L adjusted from 17 to 8 mm
<i>Clio recurva</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	8	<i>Clio</i> formula used; <i>Clio recurva</i> was not indicated as a separate genus
<i>Clio pyramidata antarctica</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	8	No fully grown specimens: mean L adjusted from 17 to 8 mm
<i>Creseis clava</i>	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	6	
<i>Creseis conica</i>	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	7	
<i>Creseis virgula</i>	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	6	
<i>Cuvierina</i> sp	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	6	Mostly juveniles: mean L adjusted from 10 to 6 mm
<i>Diacria danae</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	1.7	
<i>Diacria trispinosa</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	8	
<i>Diacria major</i>	$0.28 \cdot 0.2152 \cdot L^{2.293}$	10.7	
<i>Diacria</i> sp juv	$0.28 \cdot 0.2152 \cdot L^{2.293}$	5.9	<i>Diacria</i> spp. formula used
<i>Hyalocylis striata</i>	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	3	Mean L adjusted from 8 to 3 mm
<i>Styliola subula</i>	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	7	Mean L adjusted from 13 to 7 mm
Cavoliniidae sp	$0.28 \cdot \pi \cdot L^{(3 \cdot 3/25)}$	4	
<i>Heliconoides inflatus</i>	$0.137 \cdot D^{1.5005}$	1	<i>Limacina helicina</i> formula used; mean D adjusted from 1.3 to 1 mm
<i>Heliconoides inflatus</i> S	$0.137 \cdot D^{1.5005}$	1.5	<i>Limacina helicina</i> formula used; mean D adjusted from 1.3 to 1.5 mm
<i>Limacina bulimoides</i>	$0.137 \cdot D^{1.5005}$	3	<i>Limacina helicina</i> formula used; mean D adjusted from 2 to 3 mm
<i>Limacina helicina antarctica</i>	$0.137 \cdot D^{1.5005}$	3	Mean D adjusted from from 5 to 3 mm
<i>Limacina lesueurii</i>	$0.137 \cdot D^{1.5005}$	2	<i>Limacina helicina</i> formula used; mean D adjusted from 0.8 to 2 mm
<i>Limacina trochiformis</i>	$0.137 \cdot D^{1.5005}$	1.5	<i>Limacina helicina</i> formula used; mean D adjusted from 0.8 to 1.5 mm
Gymnosomata sp	$10^{(2.533 \cdot \log(L) - 3.89095)} \cdot 1000$	3	Mean L adjusted from 12 to 3 mm

* Bednaršek, N., Možina, J., Vogt, M., O'Brien, C., Tarling, G.A., 2012a. The global distribution of pteropods and their contribution to carbonate and carbon biomass in the modern ocean. *Earth System Science Data* 4, 167–186.