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|  | ***Equation used to estimate Carbon per Cell:*** | ***Developed by:*** | ***Avg. C:Cell values from associated study*** | ***POC flux***  ***values from associated study*** |
| *Rhizosolenia* | 0.00672 picograms of carbon per cubic micrometer  ratio of 0.00672 pg C/um3 | *Brzezinski (1985)* |  |  |
| *Other Diatoms* | **pgC cell-1 = 0.288 x vol0.811** | *Menden-Deuer & Lessard (2000)* |  |  |
| ***Dinoflagellates (CHN Empirical relationship)*** | **pgC cell-1 = 0.760 x vol0.819** | *Menden-Deuer & Lessard (2000)* |  |  |
| *(small) protists* | **pgC cell-1 = 0.216 x vol0.939** | *Menden-Deuer & Lessard (2000)* | 56 μg C/mm3 |  |
| *protists (phaeodaria)*  *protistan microzooplankton* | specific gravity = 1.0, water content =  80% of wet weight, and carbon is 40% of the dry weight (i.e., similar carbon : volume ratios as typical crustaceans). | *Beers and Stewart (1970), used by Biard 2016* | 80 μg C/mm3 |  |
| *Radiolaria/Forams/Acantharia* | *measurements:*  *CC width for Radiolaria*  *Test width for Forams* | *Michaels (1995)* | *Acanth:* 2.6 μg C mm−3  *Foram:* 18 μg C mm−3 to 180 μg C mm−3  *solitary collodaria* 9 μg C mm−3 to 280 μg C mm−3 |  |
| *Phaeodaria (Aulosphaeridae) (allometric)* | *ratio of cc:sc =1:4*  Stukel Equation: pg C=0.216 x (Volume\*.016)^0.939 | *Stukel 2018*  *expanding upon:* Michaels (1988 & *1995)* | 4.8 μg C/cell |  |
| *Phaeodaria (CHN analysis)* | *CHN* | *Ikonoue 2019* | 13 μg C/cell (range: 7.2–25 μg C/cell) | *.23mgCm^-2*  *Fraction of total POC flux (*9.7%, with a mean of 3.5% ) |

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| ***My Methodology April 2020***  ***Taxa*** | ***Measurements taken of...*** | ***Equation used to estimate Carbon per Cell*** |  |  |
| *Rhizosolenia* | whole | multiply volumes by 0.00672 to get picograms of carbon per cubic micrometer  ratio of 0.00672 pg C/um3 | *Brezinski(1985)* |  |
| *All other Diatoms* | *whole* | **pgC cell-1 = 0.288 x vol0.811** | *Menden-Deuer for Diatoms* |  |
| *Dinoflagellates* | *whole* | **pgC cell-1 = 0.760 x vol0.819** | *Menden-Deuer for Dinos* |  |
| *Radiolaria/Acantharia* | *width of CC* | **pgC cell-1 = 0.216 x vol0.939** | *Menden-Deuer for protists* |  |
| *Foraminifera* | *whole* | **pgC cell-1 = 0.216 x vol0.939** | *Menden-Deuer for protists* |  |
| *Phaeodaria* | *width of scleracoma(SC)* | pg C=0.216 x (Volume\*.016)^0.939 | *Stukel* |  |
| *Coccos* | *whole* | **pgC cell-1 = 0.216 x vol0.939** | *Menden-Deuer for protists* |  |