



Corrigendum to “Depth-resolved particle-associated microbial respiration in the northeast Atlantic” published in Biogeosciences, 13, 4927–4943, 2016

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In the paper “Depth-resolved particle-associated microbial respiration in the northeast Atlantic” by Belcher et al. (Biogeosciences, 13, 4927–4943, 2016), there was a typographical error in the phytodetrital aggregate equivalent spherical diameters (PA ESD) given and in their sinking rates in Table 1. Please see the corrected Table 1 below (changes in bold). Additionally, the units for respiration rates (C_{resp}) in Table 2 should be $\mu\text{g C mm}^{-3} \text{d}^{-1}$, and a corresponding correction is made to Fig. 6.

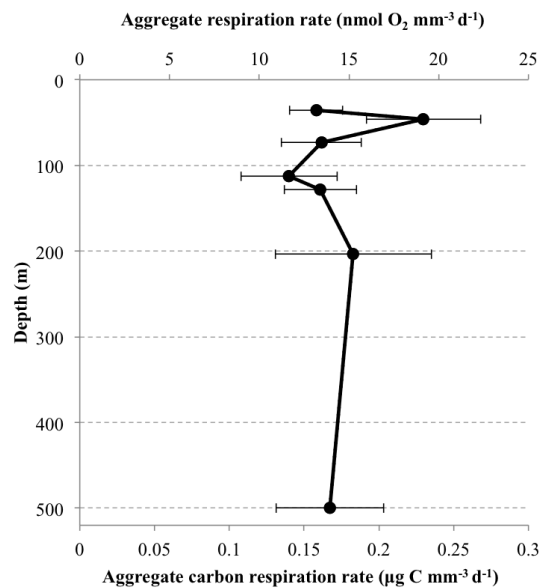


Figure 6. Respiration rates of phytodetrital aggregates with depth. Oxygen fluxes to aggregates ($\text{nmol O}_2 \text{ mm}^{-3} \text{ d}^{-1}$). For reference, aggregate respiration rates are also shown in terms of carbon per aggregate volume ($\mu\text{g C mm}^{-3} \text{ d}^{-1}$). Data are for experiments carried out at 10 °C. Error bars represent ± 1 standard error of the mean.

Table 1. Deployment table for cruise DY032 to the PAP site.

Depth (m)	Date	Time (GMT)	POC Flux (mg C m ⁻² d ⁻¹)	No. PA (in 95 L sample)**	No. FP (in 95 L sample)**	Average PA ESD* (mm)	Median PA sinking rate (m d ⁻¹)
36	24/06/2015	02:10	281.4	785	23	0.60	33.2
128	24/06/2015	02:35	76.2	259	61	0.44	30.6
73	26/06/2015	14:45	122.8	252	15	0.65	34.0
113	28/06/2015	11:50	66.0	198	0	0.49	30.1
500	28/06/2015	17:50	99.4	282	92	0.44	34.4
46	30/06/2015	18:45	63.7	702	61	0.53	11.7
204	02/07/2015	10:00	51.8	275	76	0.41	18.3
30	04/07/2015	13:00	266.8				
60	04/07/2015	13:20	38.7				
100	04/07/2015	13:30	85.5				

Numbers in bold refer to values that have been corrected from the original manuscript.

PA: phytodetrital aggregate; FP: fecal Pellet; ESD: equivalent spherical diameter.

* Refers to average ESD of PA whose sinking rates were measured.

** Refers to counts of fast-sinking material collected from deployment of 95 L snow catcher bottle. Counts have been scaled up from smaller sample split (1/4).

Table 2. Rates of particle-associated microbial respiration rates in phytodetrital aggregates. Averages are given for each depth with full range in brackets. Results are for experiments carried out at 10 °C.

Depth (m)	Total O ₂ consumption (nmol O ₂ agg ⁻¹ d ⁻¹)	Volumetric O ₂ consumption (nmol O ₂ mm ⁻³ d ⁻¹)	C _{resp} (µgC mm ⁻³ d ⁻¹)*	C _{spec} (d ⁻¹)**	No. aggregates measured
36	1.25 (0.56–2.81)	13.18 (8.03–17.77)	0.158 (0.096–0.213)	0.014 (0.006–0.030)	6
46	2.04 (0.65–3.89)	19.12 (9.49–43.76)	0.230 (0.114–0.525)	0.012 (0.004–0.021)	10
73	2.46 (0.22–6.92)	13.47 (4.69–37.67)	0.162 (0.056–0.452)	0.012 (0.004–0.030)	15
113	0.98 (0.07–2.80)	11.66 (3.10–32.39)	0.140 (0.037–0.390)	0.011 (0.002–0.024)	10
128	0.93 (0.20–1.88)	13.40 (3.22–19.73)	0.161 (0.039–0.237)	0.014 (0.003–0.020)	8
204	0.46 (0.14–0.87)	15.25 (4.05–36.77)	0.183 (0.049–0.441)	0.013 (0.003–0.031)	7
500	0.74 (0.17–1.24)	13.95 (4.86–24.71)	0.167 (0.058–0.297)	0.012 (0.004–0.021)	5

* Volume-specific respiration rate (C_{resp}).

** Carbon-specific respiration rate (C_{spec}).