Correction: The Dimethylsulfide Cycle in the Eutrophied Southern North Sea: A Model Study Integrating Phytoplankton and Bacterial Processes

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There is an error in Table 3. The authors have provided a corrected version below.
Table 3. Empirical relationships tested in the MIRO-DMS, and the corresponding annual mean of [DMS] and F\textsubscript{DMS}. Fp is the community structure index computed as the ratio between the diatoms and non-diatoms (nanoflagellates and Phaeocystis colonies) Chl \textit{a} simulated by the MIRO-DMS and \( z \) in the depth of the mixed layer (m) that is constant in the MIRO-DMS application (17m).

| Equations | Reference | [DMS] \((\text{umolS m}^{-3})\) | \( F_{\text{DMS}} \) \((\text{mmol S m}^{-2} \text{y}^{-1})\) |
|-----------|-----------|------------------------|-------------------------|
| \([\text{DMS}] = 2.29 \text{ for log10}(CJQ) < 1.72\) | Anderson et al. [109] | 2.2 | 2.23 for \( k_{\text{NO3}} = 0.8 \) |
| \([\text{DMS}] = 8.24 \text{ [log10}(CJQ) - 1.72] + 2.29 \text{ for log10}(CJQ) > 1.72\) | | 2.5 | 2.63 for \( k_{\text{NO3}} = 2 \) |
| where C = Chl \textit{a} (mg m\(^{-3}\)), J = mean daily irradiance (W m\(^{-2}\)) and \( Q = \text{NO3}/(\text{NO3}+k_{\text{NO3}}) \) \((\text{mmol m}^{-2})\) | | | |
| \([\text{DMS}] = -\ln (z) + 5.7 \text{ for Chl \textit{a}/z < 0.02}\) | Simó and Dachs [111] | 3.1 | 3.03 |
| \([\text{DMS}] = 55.8 \text{ (Chl \textit{a}/z) + 0.6 for Chl \textit{a}/z > 0.02}\) | | | |
| \([\text{DMS}] = 2.356 + 0.614 \times \text{Chl \textit{a}}\) | Lana et al. [114] | 1.1 | 1.21 |
| \( \text{DMSPp} = (20 \times \text{Chl \textit{a} \times Fp}) + 21 \text{ for Chl \textit{a}' < 0.3 mg m}^{-3}\) | Belviso et al. [112] | - | - |
| where Chl \textit{a}' = nanophytoplankton Chl \textit{a} \( \text{DMS:DMSP} = 0.231 - 3.038Fp + 16 Fp^2 - 38.05Fp^3 + 41.12Fp^4 - 16.32Fp^5\) | Aumont et al. [110] | - | - |
| \( \text{DMSPp} = (20 \times \text{Chl \textit{a}' \times Fp}) + (356.4 \times \text{Chl \textit{a}' - 85.5}) \text{ for Chl \textit{a}' > 0.3 mg m}^{-3}\) | | | |
| DMS:DMSP = 0.231 \times 3.038Fp + 16 Fp^2 - 38.05Fp^3 + 41.12Fp^4 - 16.32Fp^5 | | - | - |
| \( \text{Aumont et al. [110]} \) | | - | - |
| \( \text{DMSPp} = (20 \times \text{Chl \textit{a}' \times Fp}) + (356.4 \times \text{Chl \textit{a}' - 85.5}) \text{ for Chl \textit{a}' > 0.3 mg m}^{-3}\) | | | |
| DMS:DMSP = 0.231 \times 3.038Fp + 16 Fp^2 - 38.05Fp^3 + 41.12Fp^4 - 16.32Fp^5 | | - | - |
| \( \text{Aumont et al. [110]} \) | | - | - |

Reference

1. Gypens N, Borges AV, Speckaert G, Lancelot C (2014) The Dimethylsulfide Cycle in the Eutrophied Southern North Sea: A Model Study Integrating Phytoplankton and Bacterial Processes. PLoS ONE 9(1): e85862. doi:10.1371/journal.pone.0085862.t003