

Nitrogen and phosphorus seasonal dynamics and annual budget in the Northwestern Mediterranean deep convection region inferred from a 3D physical/biogeochemical coupled model

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Table S1. List of recalibrated parameters of the biogeochemical model compared to Ulses et al. [2016]

Additional Supporting Information (Files uploaded separately)

Symbol	Description	Unit	Value		
			Phy ₁	Phy ₂	Phy ₃
$T_{\text{Phy}}^{\text{REF}}$	Reference temperature	°C	14	14	14
$\tau_{\text{mort,Phy}_i}$	Natural mortality rate	d ⁻¹	0.09	0.03	0.05
$\Phi_{\text{max,Phy}_i}$	Maximum quantum yield	mmolC J ⁻¹	2.6 10 ⁻⁴	2.87 10 ⁻⁴	3.85 10 ⁻⁴
			Zoo ₁	Zoo ₂	Zoo ₃
$T_{\text{Zoo}}^{\text{REF}}$	Reference temperature	°C	18	18	18
$\tau_{\text{mort,Zoo}_i}$	Natural mortality rate	d ⁻¹	0.01	0.008 d ⁻¹	-
	Non-living matter remineralization rate				
$\tau_{\text{rem,CDet}}$	Detritus remineralisation rate, C	d ⁻¹	0.17		
$\tau_{\text{rem,NDet}}$	Detritus remineralisation rate, N	d ⁻¹	0.2		
$\tau_{\text{rem,PDet}}$	Detritus remineralisation rate, P	d ⁻¹	0.18		
$\tau_{\text{rem,ChlDet}}$	Detritus remineralisation rate, Si	d ⁻¹	0.4		
$\tau_{\text{rem,SiDet}}$	Detritus remineralisation rate, Chl	d ⁻¹	0.02		

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