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*Supplement of*

## **Negligible isotopic fractionation of nitrogen within temperate *Zostera* spp. meadows**

**Douglas G. Russell et al.**

*Correspondence to:* Douglas G. Russell ([douglas.g.russell1@gmail.com](mailto:douglas.g.russell1@gmail.com))

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## Supplementary material

- 5 **Table A1:** Summary of porewater filterable reactive phosphorous (FRP) and NO<sub>x</sub> concentrations for Western Port field sites over the period February – November 2016.

Field Site	February 2016		March 2016		May 2016		July 2016		November 2016	
	[FRP] μM	[NO <sub>x</sub> ] μM	[FRP] μM	[NO <sub>x</sub> ] μM	[FRP] μM	[NO <sub>x</sub> ] μM	[FRP] μM	[NO <sub>x</sub> ] μM	[FRP] μM	[NO <sub>x</sub> ] μM
	<b>Mean ± SD</b>									
Corinella	0.6 ± 0.0	0.2 ± 0.4	0.4 ± 0.2	1.2 ± 1.5	0.3 ± 0.0	0.2 ± 0.4	0.3 ± 0.0	0.7 ± 0.7	0.8 ± 0.2	2 ± 2
Coronet Bay	0.6 ± 0.0	1.8 ± 0.5	0.6 ± 0.0	1.8 ± 0.5	0.4 ± 0.2	0.7 ± 0.7	0.3 ± 0.0	0.2 ± 0.4	0.3 ± 0.0	2.4 ± 1.1
Rhyll	0.3 ± 0.0	0.7 ± 0.5	1.2 ± 0.7	1.2 ± 1.1	1.1 ± 0.7	0.2 ± 0.4	0.6 ± 0.3	0.7 ± 1.2	1.0 ± 0.3	20 ± 40

**Table A2:** Summary of porewater filterable reactive phosphorous (FRP) and NO<sub>x</sub> concentrations for the Port Phillip Bay field sites over the period August – December 2016.

Field Site	August 2016		December 2016	
	[FRP] $\mu\text{M}$	[NO <sub>x</sub> ] $\mu\text{M}$	[FRP] $\mu\text{M}$	[NO <sub>x</sub> ] $\mu\text{M}$
<b>Mean <math>\pm</math> SD</b>				
Altona	5 $\pm$ 4	1.2 $\pm$ 0.8	10 $\pm$ 6	7 $\pm$ 6
Blairgowrie	2.8 $\pm$ 0.7	1.2 $\pm$ 0.4	2.4 $\pm$ 0.5	2.6 $\pm$ 1.1
Kirk Point	44 $\pm$ 18	1.2 $\pm$ 0.4	30 $\pm$ 20	0.2 $\pm$ 0.4
North Corio	16 $\pm$ 3	2.1 $\pm$ 0.7	7.4 $\pm$ 1.1	0.2 $\pm$ 0.4
Portarlington	5.0 $\pm$ 0.2	1.7 $\pm$ 0.4	19 $\pm$ 13	0.7 $\pm$ 1.2
Rosebud	3.4 $\pm$ 1.0	1.2 $\pm$ 0.8	6 $\pm$ 2	30 $\pm$ 40
St Kilda	8.4 $\pm$ 0.9	5 $\pm$ 2	30 $\pm$ 30	1 $\pm$ 1
St Leonards	8 $\pm$ 4	2 $\pm$ 2	4 $\pm$ 1	3 $\pm$ 1
South Corio	5.9 $\pm$ 1.2	1.4 $\pm$ 0.7	6.4 $\pm$ 1.1	0.7 $\pm$ 0.7
Swan Bay	4 $\pm$ 3	1.0 $\pm$ 0.8	6 $\pm$ 2	0.0 $\pm$ 0.0

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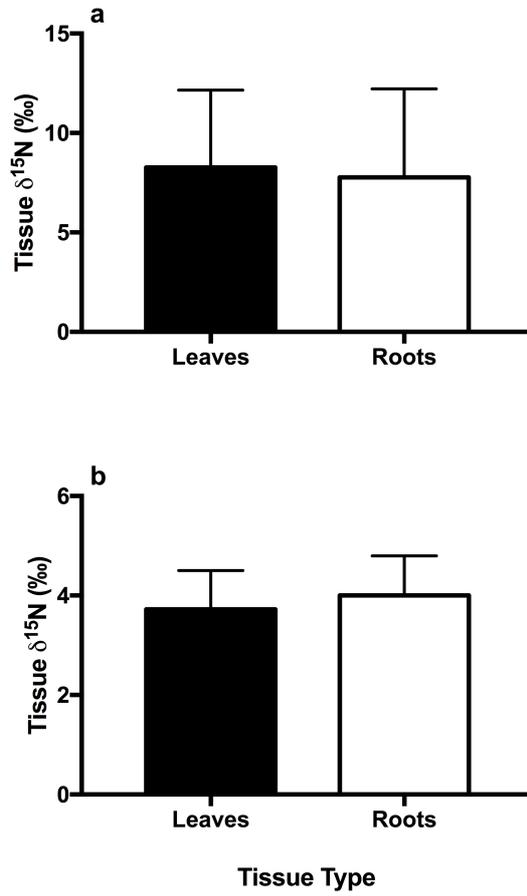


Figure A1: Comparisons between the  $\delta^{15}\text{N}$  of the seagrass roots and the  $\delta^{15}\text{N}$  of the seagrass leaves for (a) Port Phillip Bay and (b) Western Port. All values are mean  $\pm$  S.D.