

Supplement of Biogeosciences Discuss., 11, 6909–6943, 2014
<http://www.biogeosciences-discuss.net/bgd-11-6909-2014/>
doi:10.5194/bgd-11-6909-2014-supplement
© Author(s) 2014. CC Attribution 3.0 License.



Supplement of

The fractionation of nitrogen and oxygen isotopes in macroalgae during the assimilation of nitrate

P. K. Swart et al.

Correspondence to: P. K. Swart (pswart@rsmas.miami.edu)

1 **Supplementary Information**

2

3 **1 Carbon Isotopic Analyses of Algae**

4

5 The following contains information on the $\delta^{13}\text{C}$, and CN of the algae measured in the free
6 drift and syringe experiments.

7

8

9

1 Table 1: Data on the final $\delta^{13}\text{C}$, and CN of the *Ulva sp.* grown under the various
2 concentrations. Each analysis represents the mean of two separate analysis of the same
3 material.

4

5

Initial NO_3 (μM)	Final $\delta^{13}\text{C}$	σ	CN	σ
14	-19.67	0.26	23.41	1.85
60	-19.65	0.40	18.26	0.58
103	-19.58	0.38	15.00	0.07
485	-21.67	0.51	8.08	0.54

6

7

1 Table 2: Data on the final $\delta^{13}\text{C}$, and CN of the *Agardhiella sp.* grown under the various
2 concentrations. Each analysis represents the mean of four separate analysis of the same
3 material.

4

Initial NO ₃ (μM)	Final $\delta^{13}\text{C}$	σ	CN	σ
14	-23.85	0.13	18.54	1.15
55	-20.98	0.12	12.30	0.94
104	-22.47	0.23	7.87	0.27
514	-22.99	0.32	7.28	0.33

5

6

7