**Table S3.**

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| --- | --- |
| Region | Bulk Isotopic Baseline [Reference(s)] |
| **North Pacific Subtropical Gyre (Hawaii)** | Bulk δ15N values of particulate nitrate (PN) at 150m for Summer (3.0 ± 1.1‰) and Winter (3.5±1.3‰) [HOT Program, <http://hahana.soest.hawaii.edu/hot/>] |
| **Tasman Sea Abyssal Basin** | Bulk δ15N values of particulate organic matter (POM) at 20-250 m for Autumn (6.1 ± 2.5‰) [Davenport and Bax 2002]  |
| **Gulf of Mexico** | Bulk δ15N values of POM at surface for August 2007 (3.8±1.9‰) n=21 [McClain-Counts 2010] |
| **Northern Mid-Atlantic Ridge**  | δ15N values of *Calanus finmarchicus* at 0-1000 m (3.5‰, Petursdottir et al. 2008), *Diacria* sp. and *Cymbulia peroni* at 50-360 m (2.9‰ and 3.4‰, respectively; J. Hoffman, unpubl.) |
| **California Current** | δ15N values of POM at surface for June and August, 2000 and 2002 combined (shelf = 6.5‰, slope 5.5‰) [Miller et al. 2010] |

**Literature Cited**

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