Table S2. Type of published data and references used for comparison in this paper.

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| **Type of Data** | **Reference** | **Notes** |
| N2O concentrations | Peng et al., 2015; Babbin et al., 2015 | St BB2, 2012 |
| Ammonium and nitrite oxidation rates | Peng et al., 2015 | St BB2, 2012 |
| qPCR of *amoA* | Peng et al., 2015 | St BB2, 2012 |
| Ladderane Lipids | Sollai et al., 2015 | St 136, 2012 |
| N2O reduction rates | Babbin et al., 2015 | St BB2, 2012 |
| Total N2 production rates | Babbin et al., 2014 | St BB2, 2012 |
| Nitrite and CTD oxygen concentrations | Babbin et al., 2015 supplemental | Entire transect, 2012 |
| STOX oxygen concentrations | Tiano et al., 2014 | St BB2, 2012 |
| Transcript sequences | Ganesh et al., 2015 | Data from a 2013 ETNP cruise re-analyzed here. |