**TABLE S2.** Community dissimilarities between geographic regions based on a two-way SIMPER (similarity percentage) analysis.

All Antilles Current samples (*N* = 3) were taken at the DCM (deep chlorophyll maximum) only. NA = North Atlantic, AC = Antilles Current, NSS = North Sargasso Sea, SSS = South Sargasso Sea.

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| **Region 1** | **Region 2** | **Dissimilarity (%)** | **No. OTUs contributing to 10% of dissimilarity** |
| NA | AC | 74.06 | 54 |
| NSS | NA | 65.73 | 64 |
| NSS | AC | 62.40 | 61 |
| SSS | NSS | 70.46 | 56 |
| SSS | NA | 73.39 | 49 |
| SSS | AC | 70.05 | 50 |