Table 1 Water mass end members of the Atlantic Ocean.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Water mass | Salinity | 1SD | T (℃) | 1SD | Depth (m) | 1SD | n | Reference |
| a-AAIW | 34.254 | 0.053 | 3.71 | 0.56 | 897 | 126 | 18 | This study |
| upper-NADW | 35.036 | 0.088 | 4.43 | 0.77 | 1544 | 435 | 29 | Schmittner et al. (2013); Lambelet et al. (2016) |
| lower-NADW | 34.930 | 0.018 | 2.78 | 0.19 | 3095 | 722 | 7 |
| AABW | 34.674 | 0.024 | 0.01 | 0.50 | 3954 | 640 | 11 | Tachikawa et al. (2017) |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Water mass | [Nd] (pmol/kg) | 1SD | n | εNd | 1SD | n | Reference |
| a-AAIW | 10.7 | 0.5 | 8 | -8.28 | 0.26 | 7 | This study |
| upper-NADW | 17.6 | 0.6 | 10 | -13.20 | 0.50 | 10 | Lambelet et al. (2016) |
| lower-NADW | 22.5 | 4.1 | 16 | -12.40 | 0.20 | 10 |
| AABW | 26.1 | 1.3 | 11 | -8.40 | 0.46 | 11 | Tachikawa et al. (2017) |

a-AAIW end member is selected between 700-1000 m (core of a-AAIW) from this study due to the vicinity to its origin and lack of data in previous studies.