**Methods**

Surface-Velocity-Program (SVP) drifters were turned on before being deployed upon arrival at both N2S4 and N3S6. GPS locations and sea surface temperature (SST) measurements were transmitted hourly and filtered to remove unrealistic locations that implied current speeds of more than 1 m/s.

For this specific analysis we selected only the drifters that transmitted for more than 24 hours after deployment, resulting in the trajectory and SST observations of one drifter for N2S4 and two drifters for N3S6. Detailed information about these drifters is summarised in Table #.

**Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Station | Platform ID number | Deployment date and time (UTC) | Deployment location |
| N2S4 | 300234062417670 | 2016-05-24 01:33:00 | 47.6508 N; 39.1924 W |
| N3S6 | 300234065316880 | 2017-09-13 18:03:00 | 53.2960 N; 39.4960 W |
| N3S6 | 300234065316710 | 2017-09-14 01:03:00 | 53.2677 N; 39.5289 W |