**Table S9.** Distance from the Cape Nojimazaki (34°54'N, 139°53'E), the southernmost place of the Boso Peninsula, Japan to the center of the Kuroshio Current and its directions in July, August, September and October in 2012, 2013 and 2014

|  |  |  |  |
| --- | --- | --- | --- |
| 　 | 　 | Distance (nautical mile) | Direction (number of days) |
| Year | Month | *n* | Mean | SD | S | SE | SSE | E | ESE |
| 2012 | July | 21 | 45 | 13 | 2 | 6 | 13 | 0 | 0 |
|  | August | 23 | 41 | 9 | 2 | 13 | 3 | 0 | 5 |
|  | September | 19 | 37 | 5 | 1 | 2 | 16 | 0 | 0 |
|  | October | 22 | 37 | 13 | 0 | 10 | 9 | 0 | 3 |
| 2013 | July | 22 | 49 | 51 | 1 | 4 | 2 | 8 | 7 |
|  | August | 22 | 50 | 31 | 3 | 10 | 9 | 0 | 0 |
|  | September | 19 | 43 | 11 | 0 | 13 | 0 | 0 | 6 |
|  | October | 22 | 56 | 21 | 0 | 2 | 0 | 9 | 11 |
| 2014 | July | 22 | 40 | 6 | 0 | 10 | 2 | 2 | 8 |
|  | August | 21 | 37 | 10 | 0 | 9 | 8 | 0 | 4 |
|  | September | 20 | 31 | 10 | 4 | 9 | 1 | 0 | 6 |
| 　 | October | 22 | 63 | 18 | 0 | 10 | 0 | 0 | 12 |

Data are from Hydrographic and Oceanographic Department, Japan Coast Guard (https://www1.kaiho.mlit.go.jp/KANKYO/KAIYO/qboc/kurosio-num.html). *n*, number of days measured the distance in each month. Direction: S, south; SE, south east; SSE, south-southeast; E, east; ESE, east-southeast.