**Table S7.** Average values of daily mean, minimum and maximum temperatures for the 10-day interval measured during the early overwintering period of coenobitid crabs at four survey sites (Banda, Okinoshima, Shirosaki, and Katsuura) on the coat of the Boso Peninsula, Japan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year | Month | Banda | Okinoshima | Shirosaki | Katsuura |
| Mean | Min | Max | Mean | Min | Max | Mean | Min | Max | Mean | Min | Max |
| 2013 | December | Early | 9.6 | 7.2 | 12.1 | 12.0 | 10.2 | 16.0 | 15.3 | 11.9 | 19.7 |  |  |  |
|  |  | Middle | 8.8 | 6.6 | 12.5 | 10.5 | 8.5 | 15.8 | 11.0 | 8.1 | 15.6 |  |  |  |
|  |  | Late | 7.0 | 5.4 | 8.5 | 9.0 | 5.6 | 18.6 | 9.7 | 6.1 | 14.7 |  |  |  |
| 2014 | January | Early | 7.2 | 5.3 | 9.0 | 9.5 | 5.6 | 19.8 | 11.1 | 7.6 | 16.0 |  |  |  |
|  |  | Middle | 4.7 | 3.0 | 6.2 | 6.8 | 3.2 | 18.1 | 8.0 | 5.0 | 12.7 |  |  |  |
|  |  | Late | 8.3 | 4.7 | 11.2 | 11.2 | 5.9 | 21.7 | 12.2 | 7.0 | 19.3 |  |  |  |
|  | February | Early | 6.2 | 3.2 | 9.2 | 8.1 | 3.8 | 15.5 | 9.0 | 4.0 | 17.5 |  |  |  |
|  |  | Middle | 5.2 | 2.8 | 8.0 | 6.6 | 2.6 | 11.5 | 7.8 | 3.6 | 14.8 |  |  |  |
|  |  | Late | 6.6 | 3.4 | 9.9 | 9.4 | 4.3 | 16.2 | 13.2 | 7.6 | 22.9 |  |  |  |
|  | March | Early | 15.5 | 13.2 | 21.2 | 15.5 | 13.3 | 20.5 | 15.6 | 13.4 | 20.9 |  |  |  |
|  | November | Early | 16.4 | 15.1 | 17.5 | 17.6 | 16.2 | 19.4 | 19.6 | 16.6 | 26.5 | 16.5 | 14.8 | 18.6 |
|  |  | Middle | 12.9 | 11.6 | 14.1 | 14.7 | 13.0 | 17.5 | 18.3 | 14.6 | 27.1 | 13.9 | 11.9 | 17.6 |
|  |  | Late | 14.2 | 12.4 | 16.2 | 15.1 | 13.0 | 17.9 | 16.8 | 13.4 | 22.1 | 14.7 | 12.7 | 17.5 |
|  | December | Early | 9.4 | 7.6 | 11.2 | 10.9 | 8.4 | 14.3 | 12.6 | 8.4 | 19.1 | 10.6 | 8.9 | 12.9 |
| 　 | 　 | Middle | 8.2 | 6.4 | 10.4 | 8.9 | 6.6 | 12.5 | 10.1 | 6.5 | 15.6 | 9.4 | 7.6 | 12.2 |

ast; E, east; ESE, east-southeast.