

Supplementary Materials: The Influence of Water Currents on Movement Patterns on Sand in the Crown-of-Thorns Seastar (*Acanthaster cf. solaris*)

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Table S1. Compass directions after several hours or days of *A. cf. solaris* in Temae.

| Animal # | Treatment | Compass Direction [°] |
|----------|-----------|-----------------------|
| 1 | fed | 256.0 |
| 2 | fed | 241.9 |
| 3 | fed | 241.3 |
| 4 | fed | 283.3 |
| 5 | fed | 265.9 |
| 6 | fed | 233.2 |
| 7 | fed | 232.7 |
| 8 | fed | 238.3 |
| 9 | fed | 115.8 |
| 10 | fed | 251.2 |
| 11 | fed | 249.9 |
| 1 | starved | 190.3 |
| 2 | starved | 254.4 |
| 3 | starved | 218.5 |
| 4 | starved | 252.2 |
| 5 | starved | 250.6 |
| 6 | starved | 257.0 |
| 7 | starved | 222.0 |
| 8 | starved | 233.9 |
| 1 | blinded | 171.6 |
| 2 | blinded | 253.7 |
| 3 | blinded | 252.6 |
| 4 | blinded | 244.6 |
| 5 | blinded | 255.7 |
| 6 | blinded | 235.9 |
| 7 | blinded | 247.2 |
| 8 | blinded | 270.5 |
| 9 | blinded | 289.8 |
| 10 | blinded | 248.5 |
| 11 | blinded | 77.0 |

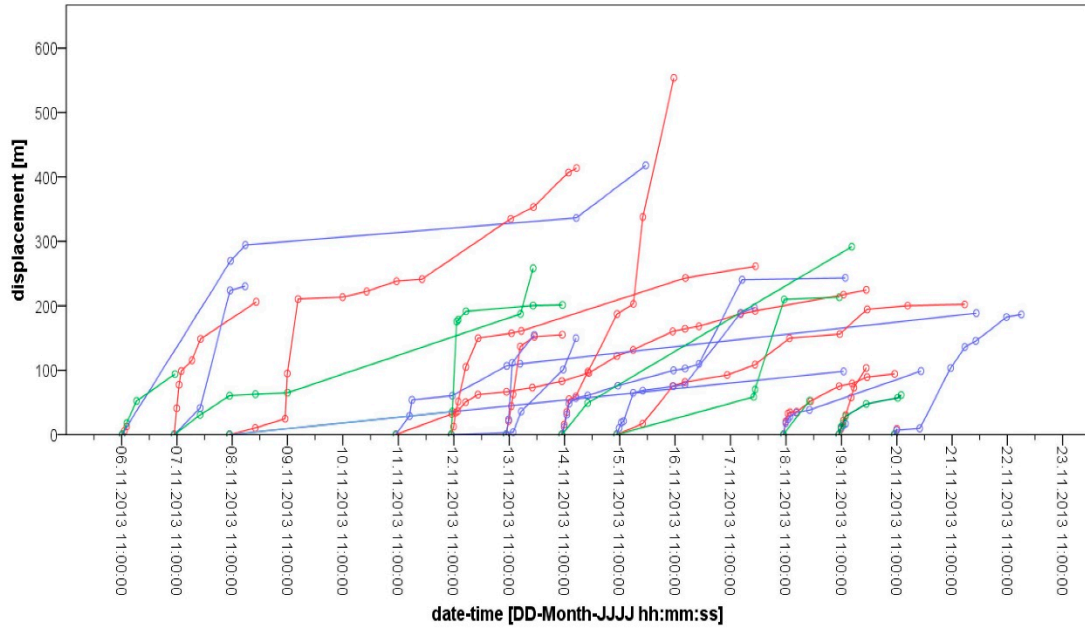


Figure S1. Overview of release and tracking time and date and distances moved in-between by *A. cf. solaris* in Temae. Lines represent single individuals. The time and date of release is where displacement is zero. Open circles represent data points where the individuals were recaptured. **Blue** lines are starved individuals; **green** are fed individuals; and **red** lines represent individuals that are blinded.