

Fine-scale temporal study of the influence of hydrobiological conditions on the spawning of the sea urchin *Strongylocentrotus intermedius*

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Table S1. AIC and p values computed for linear regression models with the use of different predictors

Predictors	AIC	p
(1) The mean Chl <i>a</i> concentration for a window	74.585	0.237 (> 0.05, ANOVA)
(2) The maximum Chl <i>a</i> concentration for a window	70.418	0.018 (< 0.05, ANOVA)
(3) The ratio of the mean Chl <i>a</i> concentration for a window to the mean seasonal Chl <i>a</i> concentration at the site	61.034	< 0.001, ANOVA
(4) The ratio of the maximum Chl <i>a</i> concentration for a window to the mean seasonal Chl <i>a</i> concentration at the site	55.728	< 0.0001, ANOVA
(5) The mean temperature for a window	75.877	0.750 (> 0.05, ANOVA)
(6) The maximum temperature for a window	75.955	0.878 (> 0.05, ANOVA)
(7) The minimum temperature for a window	77.843	0.935 (> 0.05, ANOVA)
(8) The maximum positive temperature deviation from the mean window value	75.979	1 (> 0.05, ANOVA)
(9) The maximum negative temperature deviation from the mean window value	74.444	0.464 (> 0.05, ANOVA)
(10) The mean salinity for a window	75.945	0.362 (> 0.05, ANOVA)
(11) The maximum salinity for a window	76.468	0.470 (> 0.05, ANOVA)
(12) The ratio of the mean salinity for a window to the mean seasonal salinity at the site	75.580	0.528 (> 0.05, ANOVA)
(13) The ratio of the maximum salinity for a window to the mean seasonal salinity at the site	74.779	0.273 (> 0.05, ANOVA)
(14) The study year	75.895	0.772 (> 0.05, ANOVA)
(15) The site	79.868	0.991 (> 0.05, ANOVA)
Combination of (4) and (5)	59.383	1 (> 0.05, ANOVA)
Combination of (4) and (6)	59.620	1 (> 0.05, ANOVA)
Combination of (4) and (7)	62.625	1 (> 0.05, ANOVA)
Combination of (4) and (8)	59.547	1 (> 0.05, ANOVA)
Combination of (4) and (9)	59.623	1 (> 0.05, ANOVA)
Combination of (4) and (10)	61.684	1 (> 0.05, ANOVA)
Combination of (4) and (11)	62.189	0.00057 (< 0.001, ANOVA)
Combination of (4) and (12)	59.701	1 (> 0.05, ANOVA)
Combination of (4) and (13)	59.498	1 (> 0.05, ANOVA)
Combination of (4) and (14)	59.717	1 (> 0.05, ANOVA)

Predictors	AIC	p
Combination of (4) and (15)	67.444	1 (> 0.05, ANOVA)
Combination of (5) and (15)	85.78	0.571 (> 0.05, ANOVA)
Combination of (6) and (14)	79.71	0.668 (> 0.05, ANOVA)
Combination of (6) and (15)	84.84	0.390 (> 0.05, ANOVA)
Combination of (7) and (14)	82.20	0.456 (> 0.05, ANOVA)
Combination of (7) and (15)	86.30	0.148 (> 0.05, ANOVA)
Combination of (8) and (14)	77.91	0.160 (> 0.05, ANOVA)
Combination of (8) and (15)	84.15	0.293 (> 0.05, ANOVA)
Combination of (9) and (14)	78.58	0.362 (> 0.05, ANOVA)
Combination of (9) and (15)	86.10	0.762 (> 0.05, ANOVA)
Combination of (14) and (15)	85.42	0.843 (> 0.05, ANOVA)