**Table SIA I.** Summary of mean carapace width (CW), weight andC and N values (with standard deviation in parentheses) of mature male (MM), pygmy male (PM) and mature female (MF) snow crab (*Chionoecetes Opilio*). Data are separated to show the three sampling treatment: wild, caging for 6 months and caging for 12 months.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Sampling type | crab category | n | CW (mm) | Weight (g) | C | N |
|  | MM | 101 | 119.58 (9.03) | 743.2 (176.1) | -17.622 (0.360) | 12.988 (0.459) |
| wild | PM | 100 | 75.75 (7.80) | 177.0 (52.4) | -17.963 (0.441) | 13.017 (0.420) |
|  | MF | 94 | 70.23 (6.76) | 123.0 (29.6) | -18.191 (0.396) | 13.103 (0.423) |
|  | MM | 20 | 123.78 (6.68) | 837.3 (155.6) | -17.739 (0.221) | 13.194 (0.380) |
| 6 months cage | PM | 21 | 85.04 (10.49) | 264.8 (83.8) | -17.957 (0.530) | 13.121 (0.572) |
|  | MF | 20 | 73.40 (7.02) | 142.9 (33.6) | -18.523 (0.285) | 13.556 (0.414) |
|  | MM | 19 | 123.91 (6.79) | 838.3 (128.8) | -17.660 (0.554) | 14.279 (0.874) |
| 12 months cage | PM | 20 | 78.67 (11.16) | 208.4 (86.1) | -18.274 (0.634) | 13.556 (0.909) |
|  | MF | 20 | 70.75 (6.76) | 126.6 (35.6) | -18.695 (0.324) | 13.505 (0.561) |

**Table SIA II.** Summary of medianC and N values of snow crab (*Chionoecetes opilio*) among crab category (mature males (MM), pygmy males (PM) and mature females (MF) by sampling treatment (Krusal-Wallis testing, p < 0.05).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Sampling type | crab category | n | Median | H | P |
| C |  | MM | 101 | -17.58 |  |  |
| wild | PM | 100 | -18.02 | 76.45 | <0.0005 |
|  | MF | 94 | -18.21 |  |  |
|  | MM | 20 | -17.75 |  |  |
| 6 months cage | PM | 21 | -17.85 | 28.35 | <0.0005 |
|  | MF | 20 | -18.40 |  |  |
|  | MM | 19 | -17.49 |  |  |
| 12 months cage | PM | 20 | -18.30 | 23.23 | <0.0005 |
|  | MF | 20 | -18.65 |  |  |
| N |  | MM | 101 | 13.01 |  |  |
| wild | PM | 100 | 12.96 | 4.48 | 0.106 |
|  | MF | 94 | 13.11 |  |  |
|  | MM | 20 | 13.15 |  |  |
| 6 months cage | PM | 21 | 12.97 | 11.67 | 0.003 |
|  | MF | 20 | 13.52 |  |  |
|  | MM | 19 | 14.34 |  |  |
| 12 months cage | PM | 20 | 13.37 | 8.62 | 0.013 |
|  | MF | 20 | 13.36 |  |  |

**Table SIA III.** Summary of medianC and N values of snow crab (*Chionoecetes opilio*) among sampling treatments, by crab category (Krusal-Wallis testing, p < 0.05).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Crab category | Sampling treatment | n | Median | H | P |
| C |  | 12 months cage | 19 | -17.49 |  |  |
| Mature males | 6 months cage | 20 | -17.75 | 3.17 | 0.205 |
|  | wild | 101 | -17.58 |  |  |
|  | 12 months cage | 20 | -18.30 |  |  |
| Pygmy males | 6 months cage | 21 | -17.85 | 5.27 | 0.072 |
|  | wild | 100 | -18.02 |  |  |
|  | 12 months cage | 20 | -18.65 |  |  |
| Mature females | 6 months cage | 20 | -18.40 | 32.23 | <0.0005 |
|  | wild | 94 | -18.21 |  |  |
| N |  | 12 months cage | 19 | 14.34 |  |  |
| Mature males | 6 months cage | 20 | 13.15 | 35.33 | <0.0005 |
|  | wild | 101 | 13.01 |  |  |
|  | 12 months cage | 20 | 13.37 |  |  |
| Pygmy males | 6 months cage | 21 | 12.97 | 4.51 | 0.105 |
|  | wild | 100 | 12.96 |  |  |
|  | 12 months cage | 20 | 13.36 |  |  |
| Mature females | 6 months cage | 20 | 13.52 | 25.27 | <0.0005 |
|  | wild | 94 | 13.11 |  |  |

**Figure SIA 1**: Mean values (± 1SD) of C versus N for mature females (triangles), mature males (circles) and pygmy males (squares) by sampling treatment (wild (white); 6 months cage (black) and 12 month cage (grey)).

**Figure SIA 2**: Scatterplot showing values of C versus N for mature females (triangles), mature males (circles) and pygmy males (squares) by sampling treatment (wild (white); 6 months cage (black) and 12 month cage (grey)).



N

C

**Figure SIA 3**: Mean (± 1SD) of C versus N for mature females (triangles), mature males (circles) and pygmy males (squares) by sampling treatment (wild (white); 6 months cage (black) and 12 month cage (grey)) as well as potential prey items. \* Values were not corrected for the trophic discrimination factors of 0.4 per mil and 3.4 per mil for C and N, respectively (Post, 2002).