Appendix B: Metal-Calcium Analyses of *Malzella floridana* in 2003 near-shore cores.

| Core | Depth (cm) | Phase | Sample | # Specimens | Car | Valve | Mg/Ca (mmol/mol) | Sr/Ca (mmol/mol) | Na/Ca (mmol/mol) | Salinity Estimate* |
|---|---|---|---|---|---|---|---|---|---|---|
| MKA | 0-2 | 50 | 1 | 7 | 7 | | 26.91 | 3.99 | 13.38 | 16.85 |
| MKA | 4-6 | 50 | 2 | 7 | 7 | | 30.56 | 3.89 | 12.69 | 21.38 |
| MKA | 8-10 | 50 | 3 | 5 | 5 | | 29.70 | 3.96 | 13.50 | 20.31 |
| MKA | 12-14 | 50 | 4 | 5 | 5 | | 26.10 | 3.94 | 13.17 | 15.84 |
| MKA | 16-18 | 50 | 5 | 5 | 5 | | 27.93 | 3.91 | 12.64 | 18.11 |
| MKA | 20-22 | 50 | 6 | 5 | 5 | | 25.10 | 3.93 | 12.56 | 14.60 |
| MKA | 24-26 | 50 | 7 | 5 | 5 | | 25.78 | 3.80 | 12.65 | 15.44 |
| BPNA | 0-2 | 50 | 8 | 3 | 3 | | 30.21 | 3.93 | 13.01 | 20.95 |
| BPNA | 4-6 | 50 | 9 | 3 | 3 | | 25.42 | 4.03 | 10.76 | 14.99 |
| BPNA | 8-10 | 50 | 10 | 3 | 2 | 1 | 20.13 | 3.91 | 10.71 | 8.43 |
| BPNA | 20-22 | 50 | 11 | 1 | 1 | | 12.14 | 3.87 | 11.65 | 14.10 |
| BPNA | 36-38 | 50 | 12 | 4 | 2 | 2 | 24.70 | 3.45 | 11.02 | 13.00 |
| BPNA | 40-42 | 50 | 13 | 5 | 5 | | 23.81 | 3.67 | 9.58 | 10.13 |
| BPNA | 44-46 | 50 | 14 | 0 | 0 | | 21.50 | 3.57 | 11.17 | 14.60 |
| BPNA | 48-50 | 50 | 15 | 1 | | 1 | 25.10 | 3.69 | 10.02 | 8.96 |
| BPNA | 52-54 | 50 | 16 | 7 | 5 | 2 | 20.56 | 3.58 | 10.03 | 14.26 |
| BPNA | 56-58 | 50 | 17 | 5 | 5 | | 24.82 | 3.67 | 10.57 | 14.96 |
| BPNA | 60-62 | 50 | 18 | 7 | 6 | 1 | 25.39 | 3.54 | 12.15 | 16.96 |
| BPNA | 64-66 | 50 | 19 | 7 | 7 | | 27.00 | 3.90 | 11.88 | 13.16 |
| BPNA | 68-70 | 50 | 20 | 6 | 6 | | 23.94 | 3.94 | 11.10 | 15.22 |
| BPNA | 72-74 | 50 | 21 | 5 | 5 | | 25.60 | 3.65 | 10.44 | 18.77 |
| BPNA | 76-78 | 50 | 22 | 6 | 6 | | 28.46 | 3.73 | 12.35 | 13.58 |
| BPNA | 80-82 | 50 | 23 | 6 | 4 | 2 | 24.28 | 3.61 | 10.99 | 20.06 |
| BPNA | 84-86 | 50 | 24 | 5 | 5 | | 29.50 | 3.70 | 14.62 | |
| CKA | 0-2 | 50 | 25 | 3 | 2 | 1 | 31.62 | 3.79 | 16.27 | 22.69 |
| CKA | 2-4 | 50 | 26 | 0 | | | 31.13 | 3.61 | 13.14 | 22.08 |
| CKA | 4-6 | 50 | 27 | 1 | 1 | | 29.85 | 3.79 | 11.47 | 20.50 |
| CKA | 6-8 | 50 | 28 | 2 | 2 | | 21.17 | 3.56 | 12.05 | 9.72 |
| CKA | 8-10 | 50 | 29 | 1 | 1 | | 24.02 | 3.64 | 13.40 | 13.26 |
| CKA | 10-12 | 50 | 30 | 1 | 1 | | 22.07 | 4.14 | 15.44 | 10.84 |
| CKA | 12-14 | 50 | 31 | 1 | 1 | | 38.47 | 3.39 | 12.79 | 31.19 |
| CKA | 14-16 | 50 | 32 | 1 | 1 | | 25.64 | 3.47 | 14.11 | 15.26 |
| CKA | 16-18 | 50 | 33 | 2 | 2 | | 27.72 | 3.53 | 13.08 | 17.85 |
| CKA | 18-20 | 50 | 34 | 2 | 2 | | 32.99 | 3.74 | 13.12 | 24.39 |
| CKA | 20-22 | 50 | 35 | 4 | 4 | | 34.01 | 3.70 | 12.82 | 25.65 |
| CKA | 22-24 | 50 | 36 | 5 | 5 | | 27.70 | 3.70 | 11.60 | 17.83 |
| CKA | 24-26 | 50 | 37 | 3 | 3 | | 31.38 | 3.76 | 12.37 | 22.39 |
| CKA | 26-28 | 50 | 38 | 2 | 1 | 1 | 27.40 | 3.65 | 13.51 | 17.45 |
| CKA | 28-30 | 50 | 39 | 2 | 2 | | | | | |
| CKA | 32-34 | 50 | 40 | 2 | 2 | | | | | |
| CKA | 34-36 | 50 | 41 | 0 | | | | | | |
| CKA | 42-44 | 50 | 42 | 0 | | | | | | |
| CKA | 44-46 | 50 | 43 | 0 | | | | | | |
| CKA | 46-48 | 50 | 44 | 0 | | | | | | |

* Salinity estimate based on Mg/Ca of shell, and calibration function calculated from analyses of modern ostracodes as described in text.