**Supplemental Material**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test**  | **Location**  |  |  | **χ2=** | **df=** | **p=** |
| Kruskal-Wallis (KW) | PO | Species  | Number plastic pieces  | 15.98 | 4 | 0.003\* |
|   |   | Species  | Mass (g) ingested plastic  | 13.14 | 4 | 0.01\* |
|   | IO | Species  | Number plastic pieces  | 3.89 | 3 | 0.27 |
|   |   | Species  | Mass (g) ingested plastic  | 3.80 | 3 | 0.28 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test**  | **Location**  | **Species**  |  |  | **R=** | **p=** |
| Spearman’s Correlation | PO | Green  | CCL  | Body Burden Index  | -0.30 | 0.11 |
|   |   |   | Body Condition Index  | Number plastic pieces  | 0.24 | 0.20 |
|   |   |   | Body Condition Index  | Body Burden Index  | -0.06 | 0.76 |
|   |   |   | Body Condition Index  | Mass (g) ingested plastic  | 0.47 | 0.01\* |
|   | IO | Flatback | CCL  | Body Burden Index  | -0.52 | 0.04\* |
|   |   |   | Body Condition Index  | Number plastic pieces  | 0.96 | 0.01\* |
|   |   |   | Body Condition Index  | Body Burden Index  | -0.18 | 0.50 |
|   |   |   | Body Condition Index  | Mass (g) ingested plastic  | -0.14 | 0.61 |
|  |  |  |  |  |  |  |
|  | PO | Green  | Year  | Number plastic pieces  | 0.16 | 0.36 |
|  |  |  | Year  | Mass (g) ingested plastic  | 0.25 | 0.15 |
|  |  |  | Year  | Body Burden Index | 0.12 | 0.50 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test** | **Species**  |  |  | **W or t value=** | **p=** |
| Wilcoxon Rank-Sum | Green (PO) | Stranded vs. bycaught  | Number plastic pieces  | 106.5 | 0.126 |
|   |   |   | Mass (g) ingested plastic  | 54 | 0.001\* |
|  |  |  | Body Burden Index | 153 | <0.001\* |
|   | Green  | PO vs. IO  | Number plastic pieces  | 673 | <0.001\* |
|   |   |   | Mass (g) ingested plastic  | 670 | <0.001\* |
|   |   |   | Body Burden Index  | 489 | <0.001\* |
|   | Flatback  | PO vs. IO  | Number plastic pieces  | 153.5 | 0.001\* |
|   |   |   | Mass (g) ingested plastic  | 152 | 0.001\* |
|   |   |   | Body Burden Index  | 147 | 0.002\* |
| T-test  | Green (PO) | Stranded vs. bycaught  | CCL | -21 | <0.001\* |

**Table S2.** Table of statistical results.