**SUPPLEMENTARY INFORMATION 1: FIGURES**

**Taphonomic Controls on a Multi-Element Skeletal Fossil Record**

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**INDEX**

|  |  |  |
| --- | --- | --- |
| **Figure** | **Description** | **Page Number** |
| SI Figure 1 | Figure showing proportions of taphonomic grades within each family of echinoids. | 2 |
| SI Figure 2 | Figure showing frequency of different families of echinoids through time. | 2 |
| SI Figure 3 | Figure showing the proportions of taphonomic grades through time, using Period level time bins. | 3 |
| SI Figure 4 | Figure showing the proportions of taphonomic grades through time, using Stage level time bins. | 3 |
| SI Figure 5 | Figure showing log frequency of each taphonomic grade against log frequency of respective lithological units for each Period. | 4 |
| SI Figure 6 | Figure showing frequency of specimens of echinoids through time, broken down by taxonomic rank and taphonomic grade. | 5 |

**SI Figure 1**

A graph of different colored rectangles

Description automatically generated

Figure showing proportions of taphonomic grades within each family of echinoids.

**SI Figure 2**

A graph with different colored lines

Description automatically generated

Figure showing frequency of different families of echinoids through time.

**SI Figure 3**

A graph of different colors

Description automatically generated with medium confidence

Figure showing the proportions of taphonomic grades through time, using Period level time bins. A: Frequency of taphonomic grades through time; B: Proportions of respective taphonomic grades through time.

**SI Figure 4**



Figure showing the proportions of taphonomic grades through time, using Stage level time bins. A: Frequency of taphonomic grades through time; B: Proportions of respective taphonomic grades through time.

**A screenshot of a graph

Description automatically generatedSI Figure 5**

Figure showing log frequency of each taphonomic grade against log frequency of respective lithological units for each Period.

**SI Figure 6**

**A screenshot of a graph

Description automatically generated**

Figure showing frequency of specimens of echinoids through time, broken down by taxonomic rank and taphonomic grade.