**Supplementary Table S1.** Mean values of macrofaunal abundances of the most dominant species with their standard deviation (SD) for each sampling method. Kruskal-Wallis results are shown between the different sampling methods.

|  |  |  |
| --- | --- | --- |
|   | **Sampling method** |  |
|  | **Mean Abundance±SD** |  |
|   | **FRAME** | **MANOSS** | **SUCTION** | **H** | **p** |
| *Alpheus dentipes* | 0.62 ±0.74 | 1.38 ±1.30 | 1.5 ±2.83 | 1.200 | 0.55 |
| *Amphiura chiajei* | 2.06 ±1.21 | 3.63 ±5.71 | 1.75 ±1.83 | 0.319 | 0.85 |
| *Athanas nitescens* | 2.25 ±1.49 | 3.5 ±2.98 | 1.13 ±1 | 4.324 | 0.12 |
| *Bittium latreillii* | 151.06 ±52.62 | 226.63 ±175.93 | 137.25 ±69.05 | 1.277 | 0.53 |
| *Ceratonereis (Composetia) vittata* | 1 ±1.07 | 1.13 ±1.36 | 2.25 ±2.55 | 0.804 | 0.67 |
| *Cestopagurus timidus* | 34.5 ±11.77 | 44.13 ±26.21 | 37.25 ±12.14 | 0.581 | 0.75 |
| *Dexamine spinosa* | 3.75 ±2.91 | 3.38 ±3.29 | 3.63 ±2.33 | 0.337 | 0.86 |
| *Fabricia stellaris stellaris* | 2.63 ±2.88 | 2 ±2 | 1.75 ±3.41 | 1.467 | 0.48 |
| *Galathea bolivari* | 1.125 ±1.46 | 3.38 ±1.85 | 4 ±4.6 | 4.665 | 0.1 |
| *Hesiospina aurantiaca* | 1.38 ±1.30 | 1.63 ±2.39 | 1.13 ±0.83 | 0.139 | 0.93 |
| *Lysidice unicornis* | 1.75 ±2.25 | 3.63 ±1.92 | 2.5 ±1.85 | 4.335 | 0.11 |
| *Nereis perivisceralis* | 1.38 ±1.41 | 1.63 ±1.41 | 2 ±1.85 | 0.482 | 0.79 |
| *Sphaerosyllis pirifera* | 2.13 ±1.89 | 3.75 ±2.92 | 5 ±8.55 | 1.433 | 0.49 |
| *Syllis gerlachi* | 6.88 ±4.45 | 5.25 ±4.86 | 12 ±12.64 | 3.353 | 0.19 |