**Table 1.** Total of individuals collected at Fora Beach and Urca Beach With trample (Tr) and Without Trample (Wt), Rio de Janeiro, 2012.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Urca** | | **Fora** | | **Urca** | | **Fora** | | **Urca** | | **Fora** | | **Urca** | | **Fora** | |
|  | **June** | | | | **August** | | | | **October** | | | | **December** | | | |
| **Treatment** | Wt | Tr | Wt | Tr | Wt | Tr | Wt | Tr | Wt | Tr | Wt | Tr | Wt | Tr | Wt | Tr |
| **POLYCHAETA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Capitella jonesi* | 1 | 2 | 0 | 0 | 8 | 8 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 0 | 2 | 1 |
| Opheliidae | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Syllidae n.id. | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 5 | 0 | 0 |
| *Saccocirrus pussicus* | 0 | 0 | 0 | 0 | 208 | 307 | 0 | 0 | 1454 | 3302 | 1 | 1 | 165 | 28 | 0 | 0 |
| **CRUSTACEA** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Amphipoda n.id. | 1 | 12 | 2 | 0 | 11 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 1 | 1 | 0 | 0 |
| **TURBELLARIA** n.id. | 0 | 0 | 4 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 5 | 0 | 1 | 0 | 0 |
| **NEMATODA** n.id. | 52 | 167 | 41 | 31 | 35 | 42 | 5 | 7 | 41 | 29 | 12 | 15 | 74 | 64 | 72 | 22 |

**Table 2.** Total of individuals collected at Fora Beach and Urca Beach during Week days (DW) and on Weekend (WE), Rio de Janeiro, 2012.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **Urca** | | **Fora** | | **Urca** | | **Fora** | |
|  | | **Winter** | | | | **Summer** | | | |
| **Treatment** | | DW | WE | DW | WE | DW | WE | DW | WE |
| **POLYCHAETA** | |  |  |  |  |  |  |  |  |
| Syllidae n.id. | | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Saccocirrus pussicus | | 546 | 0 | 0 | 0 | 593 | 17 | 0 | 0 |
| **CRUSTACEA** | |  |  |  |  |  |  |  |  |
| Amphipoda n.id. | | 0 | 24 | 0 | 0 | 0 | 11 | 0 | 0 |
| Emerita brasiliensis (Decapoda) | | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 |
| Macrochiridothea sp. (Isopoda) | | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 |
| **TURBELLARIA n.id.** | | 0 | 0 | 1 | 5 | 0 | 0 | 0 | 4 |
| **NEMATODA** | | 130 | 289 | 13 | 42 | 15 | 77 | 22 | 35 |
|  | | | | | | | | | |

Table 3. Mean density of benthic fauna during June to December/2012 at Fora and Urca Beaches (Wt: Without trample; Tr: With trample).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Fora Beach** | | **Urca Beach** | |
| Month | Wt | Tr | Wt | Tr |
| **June** | 10,8 | 7,4 | **10,8** | **34,2** |
| **August** | 1,2 | 1,8 | 52,4 | 72 |
| **October** | 4,2 | 5,3 | 299 | 670 |
| **December** | 15 | 4,6 | 48,8 | 24,2 |

**Table 4**. People passing by amostral area, Urca Beach and Fora Beach. Rio de Janeiro, 2012 (DW: During the Week; WE: Weekend).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Urca Beach** | | **Fora Beach** | |
|  | DW | WE | DW | WE |
| **Winter** | 8 | 54 | 12 | 0 |
| **Summer** | 0 | 437 | 0 | 10 |

Table 5. Mean density of benthic fauna during Winter and Summer/2012 at Urca and Fora beaches (DW: During the Week; WE: Weekend).

|  |  |  |
| --- | --- | --- |
|  | **Urca Beach** | |
|  | DW | WE |
| **Winter** | 143 | 70,2 |
| **Summer** | 122,6 | 21,8 |
|  | **Fora Beach** | |
|  | DW | WE |
| **Winter** | 4 | 10,7 |
| **Summer** | 4,6 | 8,2 |

Table 6. Richness of benthic fauna at Urca and Fora beaches, in the samples during Winter and Summer/2012 (DW: During the Week; WE: Weekend).

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Season | **Winter** | | **Summer** | |
|  | DW | WE | DW | WE |
| **Urca Beach** | 5 | 4 | 3 | 4 |
| **Fora Beach** | 4 | 3 | 1 | 3 |

Table 7. Richness of benthic fauna at Urca Beach and Fora Beach, during June to December/2012 (Wt: Without trample; Tr: With trample).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Month | **June** | | **August** | | **October** | | **December** | |
|  | Wt | Tr | Wt | Tr | Wt | Tr | Wt | Tr |
| **Urca Beach** | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 5 |
| **Fora Beach** | 4 | 3 | 2 | 2 | 5 | 5 | 3 | 2 |

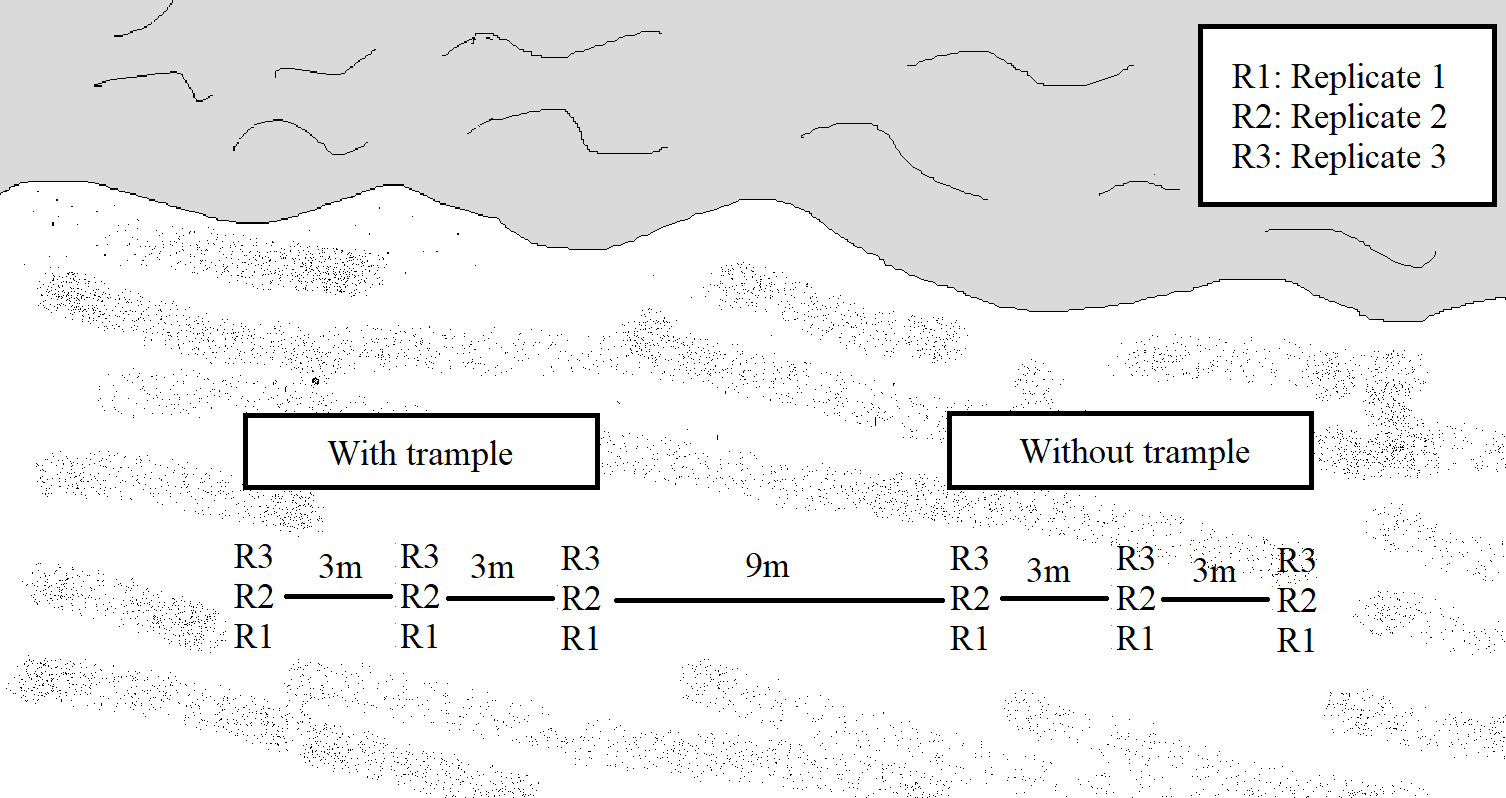


Figure 1. Sampling design organized by treatments: With Trample (Tr) and Without Trample (Wt).

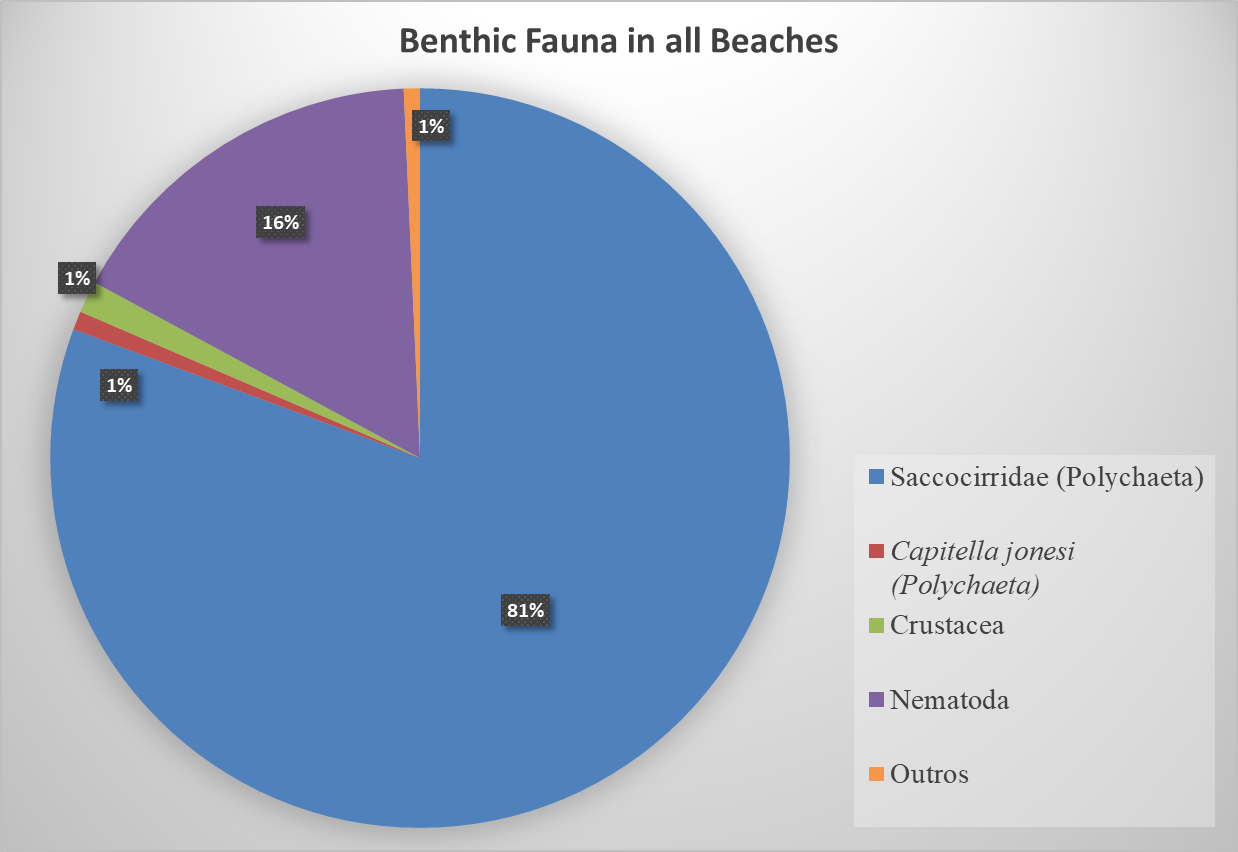


Figure 2. Percentage contribution of the benthic fauna found at Urca and Fora beaches in all treatments (Rio de Janeiro, Brazil).



**Figure 3.** Mean differences between Week X Weekend seasonal treatment in Urca and Fora beaches (Rio de Janeiro, Brazil).



**Figure 4.** Mean differences between Without trample X Trample treatment in Urca and Fora beaches (Rio de Janeiro, Brazil).