Rocky Shore Instructions

At the rocky shore you need annotate the following information onto the supplied grid (next page):

* Location of all water pools,
* Location of algae patches,
* Location of barnacle groups, and
* Using symbols and a key:
	+ Periwinkles,
	+ Limpets, and
	+ Other organisms of interest.

You will need to do and record population counts for:

* Periwinkles,
* Limpets, and
* Other organisms of interest.

For each of the rock pools the following abiotic data needs to be recorded:

* Water temperature,
* Salinity,
* Dissolved oxygen (DO), and
* Other observations.

Rocky Shore Grid

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **20** |  |  |  |  |  |  |  |  |  |  |
| **19** |  |  |  |  |  |  |  |  |  |  |
| **18** |  |  |  |  |  |  |  |  |  |  |
| **17** |  |  |  |  |  |  |  |  |  |  |
| **16** |  |  |  |  |  |  |  |  |  |  |
| **15** |  |  |  |  |  |  |  |  |  |  |
| **14** |  |  |  |  |  |  |  |  |  |  |
| **13** |  |  |  |  |  |  |  |  |  |  |
| **12** |  |  |  |  |  |  |  |  |  |  |
| **11** |  |  |  |  |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |  |  |  |  |
| **8** |  |  |  |  |  |  |  |  |  |  |
| **7** |  |  |  |  |  |  |  |  |  |  |
| **6** |  |  |  |  |  |  |  |  |  |  |
| **5** |  |  |  |  |  |  |  |  |  |  |
| **4** |  |  |  |  |  |  |  |  |  |  |
| **3** |  |  |  |  |  |  |  |  |  |  |
| **2** |  |  |  |  |  |  |  |  |  |  |
| **1** |  |  |  |  |  |  |  |  |  |  |
|  | **A** | **B** | **C** | **D** | **E** | **F** | **G** | **H** | **I** | **J** |

Organism Count Table

|  |  |  |  |
| --- | --- | --- | --- |
| Organism | Grid Location | Count | Symbol |
| *Example:* *Periwinkle* | *C9* | *30* | *+* |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Abiotic Factor Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Grid Location | Water Temperature(°C) | Salinity | Dissolved Oxygen | Other information |
| *Example:**A8 – C8 (pool 1)* | *19* |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Sand Dunes Instructions

At the sand dunes you will be running a belt transect, as well as collecting change in elevation data to create a profile.

For elevation:

* Keep your transect line straight,
* Record the correct data in the correct column, and
* Take note of any changes that might not show in the data.

For the belt transect:

* Using a quadrat count the flora per section,
* The result will need to be multiplied by four as the quadrat is only 250 cm2.
* Make sure that the quadrat count is happening in the same part of the section each time.

|  |  |
| --- | --- |
| *Example:**This section* |  |
|  |  |
| *Example:* *This section* |  |
|  |  |
| *Example:**This section* |  |
|  |  |

Sand Dune Elevation and Abiotic Data

|  |  |  |
| --- | --- | --- |
|  | Elevation | Temperature (˚C) |
| Site No. | Distance from start (m) | Seaward reading(cm) | Landward reading (cm) | Change in elevation(cm) | OverallElevation | Substrate |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |
| 11 |  |  |  |  |  |  |
| 12 |  |  |  |  |  |  |
| 13 |  |  |  |  |  |  |
| 14 |  |  |  |  |  |  |
| 15 |  |  |  |  |  |  |
| 16 |  |  |  |  |  |  |
| 17 |  |  |  |  |  |  |
| 18 |  |  |  |  |  |  |
| 19 |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |
| 23 |  |  |  |  |  |  |
| 24 |  |  |  |  |  |  |

Elevation Data Continued …

|  |  |  |
| --- | --- | --- |
|  | Elevation | Temperature (˚C) |
| Site No. | Distance from start (m) | Seaward reading(cm) | Landward reading (cm) | Change in elevation(cm) | OverallElevation | Substrate |
| 25 |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |
| 27 |  |  |  |  |  |  |
| 28 |  |  |  |  |  |  |
| 29 |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |
| 31 |  |  |  |  |  |  |
| 32 |  |  |  |  |  |  |
| 33 |  |  |  |  |  |  |
| 34 |  |  |  |  |  |  |
| 35 |  |  |  |  |  |  |
| 36 |  |  |  |  |  |  |
| 37 |  |  |  |  |  |  |
| 38 |  |  |  |  |  |  |
| 39 |  |  |  |  |  |  |
| 40 |  |  |  |  |  |  |
| 41 |  |  |  |  |  |  |
| 42 |  |  |  |  |  |  |
| 43 |  |  |  |  |  |  |
| 44 |  |  |  |  |  |  |
| 45 |  |  |  |  |  |  |
| 46 |  |  |  |  |  |  |
| 47 |  |  |  |  |  |  |
| 48 |  |  |  |  |  |  |

Sand Dune Biotic features

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site No. | Dominant Flora | Symbol | Dominant Flora Count | Density (m2) | Dominant Flora Average Height(m) |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |
| 6 |  |  |  |  |  |
| 7 |  |  |  |  |  |
| 8 |  |  |  |  |  |
| 9 |  |  |  |  |  |
| 10 |  |  |  |  |  |
| 11 |  |  |  |  |  |
| 12 |  |  |  |  |  |
| 13 |  |  |  |  |  |
| 14 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 16 |  |  |  |  |  |
| 17 |  |  |  |  |  |
| 18 |  |  |  |  |  |
| 19 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 21 |  |  |  |  |  |
| 22 |  |  |  |  |  |
| 23 |  |  |  |  |  |
| 24 |  |  |  |  |  |

Biotic Features continued …

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site No. | Dominant Flora | Symbol | Dominant Flora Count | Density (m2) | Dominant Flora Average Height(m) |
| 25 |  |  |  |  |  |
| 26 |  |  |  |  |  |
| 27 |  |  |  |  |  |
| 28 |  |  |  |  |  |
| 29 |  |  |  |  |  |
| 30 |  |  |  |  |  |
| 31 |  |  |  |  |  |
| 32 |  |  |  |  |  |
| 33 |  |  |  |  |  |
| 34 |  |  |  |  |  |
| 35 |  |  |  |  |  |
| 36 |  |  |  |  |  |
| 37 |  |  |  |  |  |
| 38 |  |  |  |  |  |
| 39 |  |  |  |  |  |
| 40 |  |  |  |  |  |
| 41 |  |  |  |  |  |
| 42 |  |  |  |  |  |
| 43 |  |  |  |  |  |
| 44 |  |  |  |  |  |
| 45 |  |  |  |  |  |
| 46 |  |  |  |  |  |
| 47 |  |  |  |  |  |
| 48 |  |  |  |  |  |