

Duxbury Reef Datasheet

Permanent Plot - Random Quadrat

Date: _____ School/Leader: _____

Names: _____ Datasheet Label: _____

1. Circle location of permanent plot: **AREA A** **AREA B**
2. Choose a pair of random numbers from the random number tables.
3. Use numbers to locate random point inside the permanent area. Center quadrat over point.

4. Record random numbers →

| | | |
|-------------|-----------|-----------|
| Random # 1: | Quadrat 1 | Quadrat 2 |
| Random # 2: | | |

5. Record the # of individuals within the large quadrat

| | # individuals | # individuals |
|---|---------------|---------------|
| Feather boa kelp (holdfast) - <i>Egregia menziesii</i> | | |
| Sunburst anemone (>5cm) - <i>Anthopleura sola</i> | | |
| Giant green anemone - <i>Anthopleura xanthogrammica</i> | | |
| Unidentified large, solitary anemone - closed and covered with sand | | |
| Chitons - <i>Mopalia</i> spp./ <i>Nuttallina californica</i> / <i>Lepidochitona</i> spp./others | | |
| Whelks - <i>Acanthinucella</i> spp./ <i>Nucella</i> spp. | | |
| Turban snails - <i>Tegula brunnea/funebris</i> | | |
| Hermit crabs - <i>Pagurus</i> spp. | | |
| Purple sea urchin - <i>Strongylocentrotus purpuratus</i> | | |

6. Record the # small squares where individuals are present

| | # squares | # squares |
|--|-----------|-----------|
| Green pin-cushion alga - <i>Cladophora columbiana</i> | | |
| Dead man's fingers - <i>Codium fragile</i> | | |
| Sea lettuces - <i>Ulva</i> spp. | | |
| Surfgrasses (attached in square) - <i>Phyllospadix scouleri/torreyi</i> | | |
| Flattened rockweeds - <i>Fucus gardneri/Hesperophycus californicus</i> | | |
| Slender rockweeds - <i>Pelvetiopsis limitata/Silvetia compressa</i> | | |
| Tar spot algae - <i>Mastocarpus</i> spp./ <i>Ralfsia</i> spp. and others | | |
| Encrusting coralline algae (on rocks) - many species | | |
| Upright coralline algae - <i>Bossiella</i> spp./ <i>Calliarthron</i> spp./ <i>Corallina</i> spp. | | |
| Scouring-pad alga - <i>Endocladia muricata</i> | | |
| Stunted turkish towel - <i>Mastocarpus</i> spp./ <i>Mazzaella affinis</i> | | |
| Lawn alga - <i>Chondracanthus canaliculatus</i> | | |
| Nori - <i>Porphyra</i> spp. | | |
| Sea sacks - <i>Halosaccion glandiforme</i> | | |
| Iridescent algae - <i>Mazzaella flaccida/splendens</i> | | |
| Aggregating anemone (<5 cm) - <i>Anthopleura elegantissima</i> | | |
| Honeycomb tube worm - <i>Phragmatopoma californica</i> | | |
| Limpets - <i>Lottia</i> spp.(0.5 - 2.5 cm) | | |
| Sea mussel - <i>Mytilus californianus</i> | | |
| Leaf barnacle - <i>Pollicipes polymerus</i> | | |
| Common acorn barnacles - <i>Balanus/Chthamalus</i> spp. | | |
| Pink acorn barnacle - <i>Tetraclita rubescens</i> | | |
| Bare rock | | |
| Loose sand | | |