

INTERTIDAL CRABS DATA SHEET WITH INSTRUCTIONS



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Team Name: _____ Date: _____ Time: _____

Coordinates (Decimal Degrees):

Latitude (XX.XXXX): _____ Longitude (-XX.XXXX):- _____

| Materials | |
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| <p>For the whole group:</p> <ul style="list-style-type: none"> • 1 Transect tape • Random number generator or number cards | <p>For each fieldwork team:</p> <ul style="list-style-type: none"> • 1 meter squared quadrat • 2 to 4 small containers or buckets • ruler • Clipboard and pencils • Camera (smartphone camera is fine) • Green crab species ID card • Asian shore crab species ID card • Rock crab species ID card • Jonah crab species ID card • Crab attributes field guide |

| Protocols | Data and Photos to Collect |
|---|--|
| <p><i>The instructions in this column specify how to answer the questions on the right-hand side of the page.</i></p> | <p><i>Questions are required unless otherwise marked. Each question has a "☐" beside it to help you track your progress.</i></p> |
| Field Site | |
| <p>1. Place your quadrat at the meter mark on the transect that matches your assigned number with the quadrat on the side closest to the water.</p> | <p><input type="checkbox"/> My quadrat is placed at the _____ meter mark along the transect.</p> |
| <p>2. Take a photo of your field site and quadrat</p> | <p><input type="checkbox"/> Clear photo of my field site taken <input type="checkbox"/> Clear photo of my whole quadrat taken</p> |
| <p>3. Determine whether the habitat is rocky intertidal, mudflat, or saltmarsh.</p> | <p><input type="checkbox"/> Habitat (circle one): Rocky intertidal Mudflat Salt marsh</p> |

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| <p>4. Determine whether the substrate is mostly moveable rock, seaweed, mud, ledge, or other.</p> | <p><input type="checkbox"/> Substrate (circle one):</p> <p>Mostly moveable rock</p> <p>Mostly shell pieces</p> <p>Mostly ledge (solid rock)</p> <p>Mostly mud</p> <p>Mostly seaweed</p> <p>Other</p> |
| <p>5. Search the quadrat for crabs placing all crabs found in a single bucket to sort later.</p> <ul style="list-style-type: none"> • Replace rocks and seaweed as you found them after you complete your search. | <p><input type="checkbox"/> Searched quadrat and replaced crabs in one bucket.</p> |
| <p>Found crabs summary</p> | |
| <p>6. Determine the species of each crab found and sort into different buckets.</p> <ul style="list-style-type: none"> • One for natives, for green, for Asian shore, and for unidentified. | <p><input type="checkbox"/> Crabs found:</p> <p>Total native crabs found: _____</p> <p>Total green crabs found: _____</p> <p>Total Asian shore crabs found: _____</p> <p>Total unidentified crabs found: _____</p> |
| <p>7. Pair up with another team to peer review the identification of each type of crab.</p> <ul style="list-style-type: none"> • Point out three identifying characteristics that helped you determine the species of the crab. • Work with the other team to try to identify unidentified crabs. | <p><input type="checkbox"/> Peer review completed in the field</p> |
| <p>8. For each species found, take three representative photos as evidence to support the identification.</p> <ul style="list-style-type: none"> • Only three representative photos, not every single crab. • Dorsal view is what you would see from the top if you were looking at a crab walking on the ground. | <p>Required photos (one crab per species):</p> <p>Native crabs:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Clear photo of spines <input type="checkbox"/> Clear photo of entire crab - dorsal view <input type="checkbox"/> Clear photo of entire crab - ventral view <p>Green crabs:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Clear photo of spines <input type="checkbox"/> Clear photo of entire crab - dorsal view <input type="checkbox"/> Clear photo of entire crab - ventral view |

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| <ul style="list-style-type: none"> Ventral view is what you would see if you picked up a crab and turned it over to look at its belly. If you are not able to identify the crab, take one close up of the spines | <p>Asian shore crabs:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Clear photo of spines <input type="checkbox"/> Clear photo of entire crab - dorsal view <input type="checkbox"/> Clear photo of entire crab - ventral view <p>Unidentified crabs:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Clear photo of entire crab - dorsal view |
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Crab Details

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| <p>9. For each identified crab, fill in the additional information listed in the attached table.</p> <ul style="list-style-type: none"> Do not collect data on crab attributes for unidentified crabs. Do not attempt to determine crab sex for crabs less than 15 mm It is not required that you record crab details for every crab, though this information is valuable to the scientists | <ul style="list-style-type: none"> <input type="checkbox"/> For each crab (except unidentified crabs or crabs less than 15 mm) record species, sex, size, shell hardness, egg bearing, and number of claws in the table. |
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| Species (GR, AS, NA, UN) | Sex (M/F/ Can't tell) | Size (mm) | Hard/Soft | Egg bearing (Y/N) | Number of claws (0,1,2) |
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| Field Notes (optional) | |
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| Checklist | |
| I certify that I: followed the random quadrat placement protocol collected data at low tide in the intertidal zone completed peer review in the field | <input type="checkbox"/> Checklist complete? (circle one) Yes No <input type="checkbox"/> Signature: <hr/> |

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Additional crab details (if needed)

| Species (GR, AS, NA) | Sex (M/F/ Can't tell) | Size (mm) | Hard/Soft | Egg bearing (Y/N) | Number of claws (0,1,2) |
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