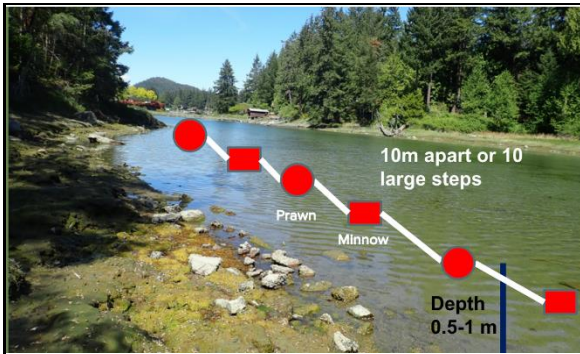


EUROPEAN GREEN CRAB EARLY DETECTION MONITORING SHORT GUIDE

DAY 1 - DEPLOYING TRAPS

Prior to departure

- Notify DFO of activities 24 hours prior
- Prepare safety plan, discuss with team
- Send daily travel plan to person not in the field
- Confirm all safety equipment is present
- Confirm all trapping gear is present
- Thaw and cut 12 herring into 2-3 chunks each



Example of trap placement

At site

- Prepare traps:
 - Load each bait cup with 2-3 chunks of herring and place one cup in each trap
 - Close traps with rot cord
 - Mend any holes/damage if present
- Set 6 traps 10 meters apart at each site
 - Ensure they will remain submerged at low tide
 - Alternate minnow and folding prawn traps
 - Note organization, licence number coordinates (DD) of each string, site, area, date, time, and method of trap deployment (groundline or individual)
 - Secure traps and mark with flagging tape or buoys as necessary

Upon return

- Clean/rinse equipment with freshwater

DAY 2 - RETRIEVING TRAPS

Prior to departure

- Review safety plan with team
- Send daily travel plan to person not in the field
- Confirm all safety equipment is present
- Confirm all data collection equipment is present

At site

Complete data collection with paper datasheet or with Survey 123 & Quick Capture apps.

- Note the time the first trap is pulled
- Note weather of last 24 hrs
- Record salinity and water temperature at each site using refractometer
- Count and record non-crab species:
 - Identify and record total numbers
 - Promptly return bycatch, prioritize fish
- Count and record all crab species*:
 - Measure the first 10 male, female and berried of each species, record carapace width (mm), then count
 - Return native crabs

*If European green crabs are captured:

- DO NOT return to water, place in Ziploc/sealed container for transport to freezer
- Contact DFO (DFO.AISPacific-AISPacific.MPO@dfo-mpo.gc.ca). DFO may request samples to determine origin if EGC are found in a new area.



Wrap up

- Clean/rinse equipment with salt water
- Dispose of bait
- Upon return, thoroughly clean equipment with freshwater upland away from the ocean and let dry before using in a new location
- Notify DFO if there were any fish or terrestrial mortalities

Submit data to:
tyranna@coastrestore.com

EUROPEAN GREEN CRAB EARLY DETECTION MONITORING SHORT GUIDE

Gear checklist

DAY 1 DEPLOYING TRAPS	DAY 2 RETRIEVING TRAPS
<p>Personal gear:</p> <ul style="list-style-type: none"> - Waders/boots - Backpacks - Layers of clothing appropriate for conditions - Sun protection (sunscreen, hat, sunglasses) - Gloves <p>Survey necessities:</p> <ul style="list-style-type: none"> - Copy of your Scientific Licence - Datasheets and pencil, or device with app(s) - GPS unit or phone app - 3 minnow and 3 prawn traps per site - Bait cups (1 per trap) - Bait (1 herring per cup cut into 2-3 pieces) - 1 stainless steel stake per trap or the 70m rope for every 6 traps - 2 buoys for each string (if applicable) - Mallet and rebar (if applicable) - Knife - Tissue for wiping iPad/refractometer - Flagging tape (if applicable) - Spare trap/buoy clips - Extra rot cord and gansen - Permanent marker <p>Safety equipment:</p> <ul style="list-style-type: none"> - First aid kit (Level 1 or Level 3 in remote areas) - High visibility vest - Cell phone or radio - PFDs - Bear spray, flares, horn or whistle - Site specific safety plan <div data-bbox="240 1522 565 1852" style="border: 1px solid black; padding: 5px;"> <p>MEASURE CRABS (point to point)</p>  </div>	<p>Everything from Day 1 plus:</p> <ul style="list-style-type: none"> - Three sorting bins - Camera - Calipers - Refractometer - Species ID guide - Ziploc to carry old herring bait back out - Cooler and/or Ziploc bags to transport EGC - Optional: Garden rake for stability and to help retrieve traps <div data-bbox="857 745 1432 1291" style="border: 1px solid black; padding: 5px;">  </div> <p style="text-align: center;">Survey 123 data collection app example</p> <p>On the Survey 123 app:</p> <ul style="list-style-type: none"> - Fill out same information as paper datasheets (organization, coordinates (DD) of string, site, area, date, time, and method of trap deployment (groundline or individual)) - Bycatch species and number (all non crab species) <ul style="list-style-type: none"> • Press the + sign to add more species - Crab species, sex, count and size <ul style="list-style-type: none"> • Press the + sign next to crab size to add another size (Measure 10 of each sex and species) • Press the + sign at bottom for another species or another sex of crab