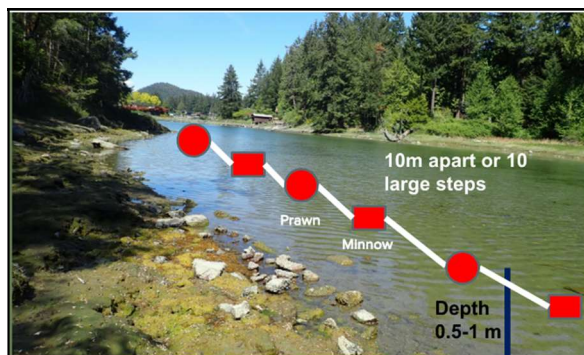


EUROPEAN GREEN CRAB EARLY DETECTION MONITORING SHORT GUIDE

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 approx. 1 herring/trap, cut each into 2-3 chunks



Example of trap placement

At site

- ☐ Prepare traps:
 - o Load each bait cup with 2-3 chunks of herring and place one cup in each trap
 - o Close traps with rot cord
 - o Mend any holes/damage if present
- ☐ Set 6 traps 10 meters apart at each site
 - o Ensure they will remain submerged at low tide
 - o Alternate minnow and folding prawn traps
 - o Note organization, licence number, coordinates (DD) of each set, site, area, date, time, and method of trap deployment (groundline or individual)
 - o 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 Survey123.

- ☐ Note the time the first trap is pulled
- ☐ Note observations, such as weather, eelgrass, decaying vegetation, bear tracks, traps tampered with or moved
- ☐ Record salinity and water temperature
- ☐ Count and record non-crab species:
 - o Identify (if unknown take photo) and record total numbers
 - o Promptly return bycatch, prioritize fish
- ☐ Count and record all crab species*:
 - o Identify (if unknown take photo), measure the first 10 male, female and berried of each species, record carapace width (mm), then count total per sex
 - o 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.AISPacific-AISPacifique.MPO@dfo-mpo.gc.ca

Wrap up

- ☐ Clean/rinse equipment with salt water
- ☐ Dispose of bait
- ☐ Upon return, clean equipment with freshwater upland away from the ocean and let dry before using again
- ☐ Notify DFO if there were any fish or terrestrial mortalities
- ☐ Submit data to DFO

EUROPEAN GREEN CRAB EARLY DETECTION MONITORING SHORT GUIDE GEAR CHECKLIST

DAY 1 DEPLOYING TRAPS

Personal gear:

- Waders/boots
- Backpacks
- Layers of clothing appropriate for conditions
- Sun protection (sunscreen, hat, sunglasses)
- Gloves

Survey necessities:

- Copy of your Scientific Licence
- Datasheets and pencil, or device with app
- 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 rope (if applicable)
- Knife
- Tissue for wiping iPad/refractometer
- Flagging tape (if applicable)
- Spare trap/buoy clips
- Extra rot cord and gangen
- Permanent marker
- Trap identification tags (1 per trap)

Safety equipment:

- 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



DAY 2 RETRIEVING TRAPS

Everything from Day 1 plus:

- Three sorting bins
- Camera
- Calipers
- Refractometer
- Species ID guide
- Ziploc to carry old herring bait back out (if applicable)
- Sealed container or Ziploc bags to transport EGC

Survey123 data collection app example

On the Survey 123 app:

- Fill out same information as paper datasheets (organization, coordinates (DD) of set, site, date, time, and method of trap deployment (groundline or individual)
- Bycatch **species** and **number** (all non crab species)
 - o Press the + sign to add more species
 - o Photograph if unknown species
- Crab **species, sex, count** and **size**
 - o Press the + sign next to **crab size** to add another size (Measure **10** of each sex and species)
 - o Press the + sign at bottom for another **species** or another **sex** of crab
 - o Photograph if unknown species
- Hit the **checkmark** to submit record, if no service, save in the **Outbox**, when you get to Wi-Fi go into the **Outbox** and hit **Send**
- Review data for the day on the device or in **ArcGIS online** and ensure there are no errors while it's still fresh in your memory, make any necessary corrections