**EcoFoci Spring Mooring Cruise Sampling**

*Standard eDNA filtering -*

*~40 CTDs, 3 niskins per dive, 1 filter per niskin (~120 samples in total)*

*Negative Control = START, 50, 100, END*

*Ice eDNA filtering - If you run into ice and it has a chlorophyll bump, take 3 samples in the middle of the bump. If large, then we will sample the top/middle/bottom of it = 9 samples in total. Then, the ship will complete a transect away from the ice (max 5 stations), and we can sample at BOT/30 m/10 m for those remaining sites.*

*Ice Scraping - This is very opportunistic. If the crew is able to acquire a piece of ice with ice algae growing in/on it, we want to preserve that sample. Provided a thick layer of ice algae present, use the provided scoopula scraper (sterilized) to fill ~1/5th of a 2 ml cryo tube. Add 1 ml of RNALater, cap and mix by hand before placing into the -80 freezer (or -40 freezer with a -20 being last choice). Make sure to include collection date, location, and replicate # on the tube along with the sample ID. If enough algae is available, do this for at least 5 tubes. If the algae is frozen into the ice, allow it to melt in a sterile nalgene bottle or other appropriately sized sterilized container and filter it through a sterivex like any other eDNA sample. Add 2 ml of RNAlater to the sterivex post filtering. Please do not hesitate to ask M. Galaska questions prior or during the cruise (734-904-0513 and same number for Whatsapp)*

**Action Packer #1**

175 sterivex filters (11 boxes)

400 end caps (4 full boxes)

Whirlpaks (180)

Gloves (3 M boxes)

Kim wipes (3 partial boxes)

Ziplock bags (2 boxes of 38)

P1000 tips(5 boxes)

Aluminum foil (1 box)

Table bench cloth

Parafilm

Caulking gun (backup if pump fails)

Lysol wipes

Bleach (1 gallon)

**Action Packer #2**

Syringes (1 box 60 mL)

Paper towels (2 rolls)

Tupperware Storage Box

50 mL falcon tubes (25)

Tube rack

Waste disposal container

Collapsible crate

String/Bungees

Writing utensils and labels/labeling supplies (in plastic bag)

Razor Blades

Tool kit essentials - hose clamps, electrical tape, eye bolts, head lamp, scissors

Female luer to ¼” barb connector (40 non-sterile + ~20 sterile)

Pump accessory bag (charger, etc.)

Zip ties (small/large)

Trash bags

Lighter

P1000 pipette

Graduated cylinder

Notebook (1)

Bib & Work Gloves

Shower curtain

Scoopula

Bottle for RO water (sterilized + filled)

Bottle for ethanol

Bottle for bleach - prelabeled

2 mL cryotubes (25)

Small 15 mL falcon tube of RNAlater (2)

Tape for packing

Carboy spigots (2)

Coolers/techni ice for sample storage

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**Action Packer #3**

1 L brown Nalgene bottles (Quantity: 20)

1 L brown Nalgenes bottles filled with RO (Quantity: 4)

Float coat

Peristaltic pump

Carboy

**Cooler**

1 L brown Nalgene bottles (Quantity: 24)

**Materials**

Buckets (3)

Tubing (Quantity: 55)

Han’s puke bucket

Boots

Hardhat

95% ethanol (6 x 50 mL tubes)

95% ethanol (1, 500 ml)