



## Ocean Acidification Research Laboratory

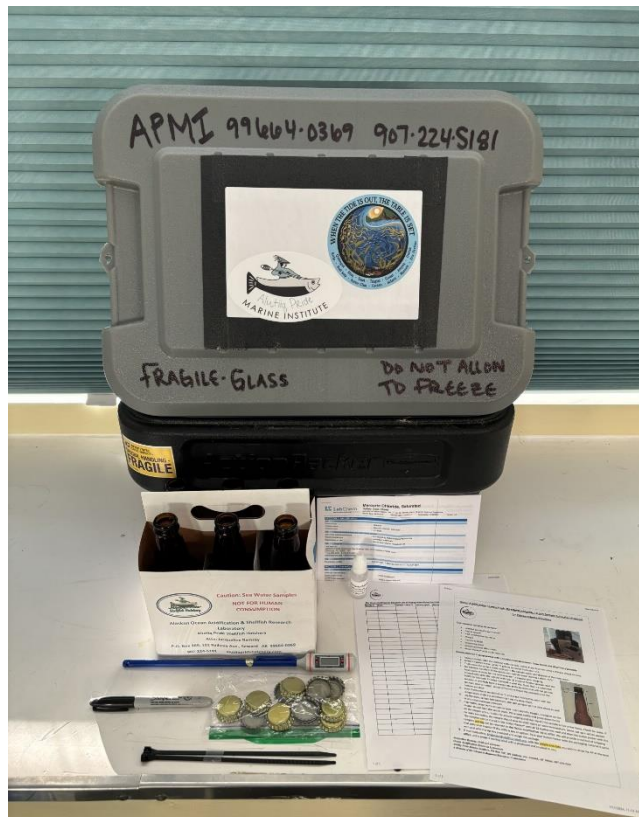
### Dissolved Inorganic Carbon Sample Collection Protocol

#### Your seawater sampling kit contains:

- Action Packer® with ziptie closures
- Labeled bottles & holders for shipping
- Caps & capper
- NIST certified thermometer
- Sharpie
- Fixative & MSDS
- Sample log sheet
- Sample protocol (this sheet)

**Sample Protocol: One sample per week with one triplicate sample per month. Please use the **same location for all samples.****

1. Label bottle(s) with the date, bottle # and location
2. Using a 5 gallon bucket, grab ~3 gallons saltwater from your site.
3. Turn thermometer on and set to °C. Place in bucket with collected seawater and wait until the temperature stabilizes. **Log temperature of each sample on the data sheet!!**
4. Triple rinse the sample bottle and cap in the sample water and dispose of the rinse water. Rinse water does not go back into the bucket of collected sample water.
5. **No Bubbles!** Carefully fill the bottle with sample water leaving a short ~1/2" (where bottle mouth meets the neck) head space to allow for the cold seawater to expand after capping.
6. Immediately spike the sample with two (2) drops of fixative (please read the MSDS for Mercuric Chloride included in your kit).
7. Cap bottle: place bottle in a secure spot and insert cap into the capper, a magnet on the capper should hold the cap in place. Place the capper onto bottle and press down firmly on the capper arms. You should feel a 'click' when the cap is sealed. Check for leaks by inverting the sample bottle. If no leaks are visible, the sample should now be shelf stable at room temperature. Store the sample cap up in the provided action packer until you are ready to ship.
8. **Log the date, temperature, bottle number, sampler name, and site name for each sample on the sample log.**



**Shipping your samples back to APMI:**

The samples can be stored in the Action Packer® until all 12 bottles are used. Once all bottles are used, the Action Packer® with the samples **and log** is to be returned to the Ocean Acidification Research Lab at APMI. We will provide a method of shipping that suits your location if USPS is not an option. Pack your Action Packer® with the packaging material it came with and seal with the zipties provided. E-mail Jen Kiokun, [jen@crrcalaska.org](mailto:jen@crrcalaska.org), with the weight of your package and date you wish to drop the Action Packer® at the post office. A prepaid mailing label will be produced and emailed to you.



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