## **∆bSi Production Protocol - HOT Cruises**

## At Sea:

- 1. Rinse a jerrican three times with sample water then fill almost full to have enough water for rinses.
- 2. Split sample between 2 2.8L PC bottles, **initial** and **final**, rinsing each of the bottles three times prior to filling. Put bottles in bottle carriers to take back out on deck.
- 3. Take the **final** bottle from each depth out to deck to be hung on mooring line. For deep bottles, place in dive bag with rad samples and tie bag to mooring line.
- 4. Incubate for 24hours (gas array).
- 5. Filter the initial bottles on 47mm 0.6μm PCTE filters on the filtration rack, roll/fold filter into thirds lengthwise, place in a pre-labeled purple capped 15ml PP centrifuge tube and dry at 65°C (any hotter will melt the tube). Once dry (in 1-2 days), cap tightly and package for shipping back to UCSB. Record volumes etc. on data sheet.
- 6. Collect final bottles from mooring and bring in to filtration rack. Filter water on 47mm 0.6μm PCTE filters, roll/fold filter into thirds lengthwise, place in a pre-labeled purple capped 15ml PP centrifuge tube and dry at 65°C (any hotter will melt the tube). Once dry (in 1-2 days), cap tightly and package for shipping back to UCSB. Record volumes etc. on data sheet

## In the Lab:

7. Follow standard bSi protocol for determination of biogenic particulate silica in samples.