SC Wharf - water collection

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Abstract

Citation: Kendra Negrey SC Wharf - water collection. **protocols.io**
dx.doi.org/10.17504/protocols.io.rrgd53w
Published: 17 Jul 2018

Protocol

Whole water collection

Step 1.
Whole water is collected using a FieldMaster student sampler (https://shop.sciencefirst.com/wildco/student-water-samplers/5976-fieldmaster-basic-water-sampler-pvc-rubber-175l.html)

Water is collected at 0, 5, and 10ft and mixed together in a 4L bottle.

http://oceandatacenter.ucsc.edu/home/spotlight_discreet.html

Net tow collection

Step 2.
A net tow is collected using a plankton net with 20um mesh and a 300mL cod end.

The net is dropped to 10ft and slowly pulled up to the surface. This is repeated 5 times - total effort = 50 ft vertical.
The final remaining volume is reduced to 300mL and poured into a bottle.

This protocol (50ft vertical effort, reduced to 300mL) is the same used by CDPH for their volunteer monitoring program.
It is also being used by NOAA's CA based volunteer plankton monitoring program.

http://oceandatacenter.ucsc.edu/home/spotlight_nettow.html

Environmental data collection

Step 3.
In the field the following parameters are measured/observed:
Water temperature
Visibility
Water color (http://oceandatacenter.ucsc.edu/PhytoBlog/color.html)
Water conditions
Sky/weather conditions

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Water processing

Step 4.

All water is taken back to the lab for further processing (separate protocol coming "soon-ish").

Cell counts, nutrients, chl a, toxins, pigments, bacteria, phytoplankton observations, etc.

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