



We are looking for students to participate in the decadal re-occupation of the U.S. GO-SHIP hydrographic long-line cruise known as P02 (30°N in the Pacific). There are two legs. Each group of students will participate in one leg only: Leg 1 (~7 weeks **April to June 2022**) and Leg 2 (~4.5 weeks **June to July 2022**).

Deadline for applications (see below for details): November 30, 2021

PARTICULARS:

- We will be sailing on the **R/V Revelle** (<https://scripps.ucsd.edu/ships/revelle>)
- Chief Scientists – TBD
- Leg 1: 49-51 days
- Leg 2: 33 days
- U.S. GO-SHIP Contacts
 - PI: Lynne Talley ltalley@ucsd.edu (she/her)
 - Project Manager: Alison Macdonald amacdonald@whoi.edu (she/her)

The US GO-SHIP program collects data for global CO₂ and climate variability programs. The website is <http://usgoship.ucsd.edu>. Scripps Institution of Oceanography (UCSD) operates the NSF-funded portion of the US national program, which covers this upcoming 2022 cruise. The website of the international GO-SHIP (Global Ocean Ship-based Hydrographic Investigations Program) program is <http://go-ship.org>. GO-SHIP is part of the Global Ocean Observing System (GOOS) <https://www.goosocean.org/>.

US GO-SHIP pays all travel costs. It also pays student salary/tuition costs during the time of the cruise plus the few travel days before and after the cruise, if and only if the student is enrolled at a U.S. institution.

For each leg, we are seeking 4 students for CTD/deck operations (typically PO background), 1 student to assist with CFC analysis (typically chemistry background), and 1 student to assist with LADCP (Lowered Acoustic Doppler Current Profiler) operations (typically marine science or engineering background), so a total of 6 students per leg. Graduate students will have priority.

NOTE that dates and ports can change during final ship scheduling, but any such changes are usually minor.

A valid passport and appropriate visa are required for participation in the cruises. U.S. citizenship is not required.

All personnel sailing will need proof of COVID-19 vaccination.

If you have any interest:

(1) Contact

CTD students: Please contact [Alison Macdonald \(amacdonald@whoi.edu\)](mailto:amacdonald@whoi.edu) and [Andreas Thurnherr \(ant@ldeo.columbia.edu\)](mailto:ant@ldeo.columbia.edu), Chief Scientists for Leg 1 and Leg 2, respectively, to let us know that you are contemplating applying and to get more information if you have questions.

CFC students: Please contact CFC PI [Dong-Ha Min \(dongha@austin.utexas.edu\)](mailto:dongha@austin.utexas.edu)

LADCP students: Please contact LADCP PI and Leg 2 Chief Scientist [Andreas Thurnherr \(ant@ldeo.columbia.edu\)](mailto:ant@ldeo.columbia.edu)

(2) Talk to your advisor to be sure that this will work with your program. We note, these are full time (12-hour work days). Neither students nor advisors should expect non-US GO-SHIP efforts to be undertaken during the cruise.

(3) After that, if you want to proceed - please send a cover letter indicating your interest and information about your background (CV, include the academic program you are part of, name and contact information for your advisor, the type of research you are carrying out if you are at that stage, as well as any prior cruise experience).

Graduate students in good standing at US institutions will be given preference. Undergraduates and postdocs (though only student salary covered) may also apply.

DUTIES:

The repeat hydrography cruises operate 24/7 with 12-hour shifts. CTD student duties include operating the CTD and rosette bottle system both on deck and in the lab, drawing and documenting water samples, and working on data quality control and analysis alongside the chief and co-chief scientists. You may also be asked to assist other science groups and to contribute to the cruise blogs. The CFC student will collect CFC samples and perform onboard CFC analysis as part of the CFC science team. The LADCP student will receive training.

This is a wonderful opportunity to gain experience in oceanic fieldwork participating in the collection of full water column hydrographic data of the highest quality available globally, to learn new skills, to interact and learn from world class scientists and technicians, and to become a valuable member of a team.

Alison Macdonald (amacdonald@whoi.edu)

U.S. GO-SHIP Executive Council co-chair and Project Manager