

GO-SHIP P02/Leg 1 Weekly Report 1 Arrival and the Start of Quarantine April 5-14, 2022

This is first of two planned weekly reports that will be sent out prior to the R/V *Revelle's* planned departure from Guam. We have arrived: a couple of us early to deal with security requirements at the Navy Base, most of us leaving home of April 7&8 to fly in on the evening of April 9, and five arriving on April 10th. We are all glad to have the 20+ hours of masked flying time over. While one cannot control how individuals wear their masks, it was good to see that in both Honolulu and Guam masking in all indoor public spaces is still required. Hiccups along the way have included visa issues, lost luggage and a hybrid rental car driven away with no keys provided. I want to say, "all members of P02/Leg1 are in Guam", but unfortunately, we are minus 1 member of science party who was unable to come due to a family emergency. That said, a series of fortunate events beginning yesterday with a chance meeting in an elevator has brought us an eager young marine biologist from the University of Guam, willing to drop everything to join our Bio GO-SHIP team in the P02 pilot project that will include both bio-only casts and multiple underway measurements.

Our spread in arrival times worked out well as most were able to get food shopping for the quarantine out of the way on the 10th, leaving just a few to go out the morning of the 11th and settle into quarantine by noon. We also did well with rental cars matching exactly what we needed to make organizing the masked shopping expeditions efficient. Amazingly, we managed to get 90% of our assorted multi-disciplinary/institutional/generational group to book rooms in the same hotel. This has allowed us (our co-chief Shuwen Tan did all the leg work) to set up group PCR testing prior to boarding without the necessity of leaving the hotel and without the risk of a single positive result impacting everyone in a vehicle.



Figure 1: DIC van on the deck of the R/V Revelle in Guam 4/14/22. Photo courtesy of Dana Greeley.

Most of the logistical issues that we have been dealing with since arrival have mainly revolved around a lack of cargo flights from Honolulu the week prior to our load. We believe that at this juncture, workarounds have been found. We have one remaining shipment held up due to packing issues. Various options are being explored to overcome this challenge. While we P02 participants are not yet allowed in the port, on April 14, the same day that RR2203 came into port, our RR2204 vans were rearranged and loaded (see Fig. 1).

One item of note of which some may not be aware is that on one of the cruises out Guam earlier this year a rosette was lost. After a thorough investigation and the setting up of new protocols and safety features, we are now confident that our GO-SHIP 36-bottle rosette will not suffer the

same fate. This is great news, as P02 has over 200 full depth casts and another ~75 Bio casts planned (see the map on the U.S. GO-SHIP website: <https://usgoship.ucsd.edu/> .

So now that we have been in our rooms for 5 days, except for occasion outings for “allowable” exercise, we are glad to report that we all a) passed our pre-flight PCR tests, b) found our way from our various EDT, MDT, and PDT locations in the US and Canada to our lodgings in ChST Guam, and c) for the most part have individual kitchen facilities, food in the fridge, and fantastic views (see Fig. 2). We have been having both group and all-hands meetings throughout the week. The CTD-watch has been learning about the rich variability in the Kuroshio Current pathways and how these dynamics will be seen in our sampling (Fig 3). And tomorrow morning most of us will getting our pre-boarding PCR tests. Wish us luck. We have come a long way. We are nearly there, and we are excited to begin the work of setting up our labs on the ship.



Figure 2: A room with a view - sunrise from Alupang Tower Beach Condo where most of us are staying. Photo credit: Alison Macdonald

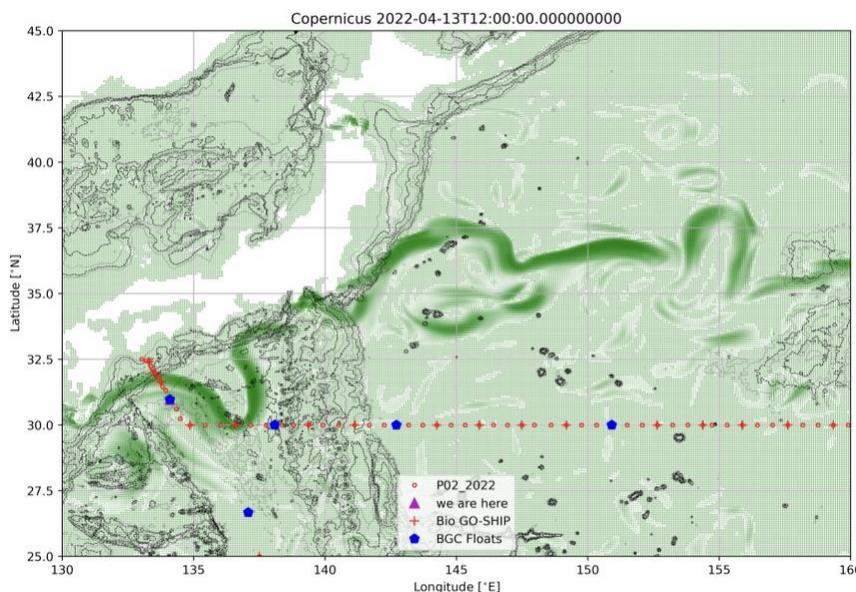


Figure 3: The western end of the planned 2022 P02 track. Symbols represent station locations: Full-depth casts (red circles), with Bio 1000 m casts (red crosses), with GO-BGC float deployments (blue pentagrams). The purple triangle falls south of the geographical area shown here. Small green arrows represent the estimate of surface velocity from the Copernicus physical model for 4/13/22 12:00 UTC. Figure courtesy of Shuwen Tan.

Last, but not least. Our P02 GO-SHIP/GO-BGC student blog is underway – check it out here: <https://www.go-bgc.org/expedition/north-pacific-2022/p02-introduction>

With greetings from Guam,
Alison Macdonald and Shuwen Tan
2022 P02/Leg 1 Chief and co-Chief Scientists