

February 25 2020:

We have received an update for the ship's berthing in Cape Town. We will be alongside D-Berth (please see attached map provided by the ship)

February 12 2020:

We have received information from the ship regarding the agent the ship will be using in Cape Town (see below). Thank you all for your patience on this matter.

REMINDER: Our cruise website has a lot of relevant information:

https://www.aoml.noaa.gov/ocd/gcc/A13.5_2020/

When prompted, the username is: goship and the password is: aoml@4301

I have begun to store copies of emails I've sent with updates and relevant information. If your inbox tends to get out of control, you'll find relevant emails here:

https://www.aoml.noaa.gov/ocd/gcc/A13.5_2020/updates.html

Those of you who joined our list of participants recently, please check the link for information you might have missed.

SHIPMENT TO CAPE TOWN:

If you are planning to ship equipment to Cape Town, remember to establish a separate contract to ensure that the ship is not charged for your shipments. The ship has requested berthing in the Victoria & Alfred Waterfront but they have received no confirmation yet.

Here is the information for the shipping agent:

Please initiate communications with:

George Totkas

Email: solicitation@gdlgroup.eu

He is based out of Greece and the primary contact.

The local agents are Jonathan Miller and Vishal Saroop and can be reached at southafrica.za@gdlgroup.eu.

Please confirm pricing and payment with agents before shipping things as this service is separate than the statement of work the ship has contracted with this agent.

Please see below full style address to dispatch the shipment and additional requests for documentation from the agent.

MASTER & OWNERS M/V 'NOAA SHIP RONALD H. BROWN'

C/O Kanoo Africa Pty Ltd

17th Floor

Norton Rose House

8 Riebeeck Street

Cape Town

8001

Tel: +27 21 421 8999

Fax: +27 21 418 1275

Email: capetown@kanooshipping.com

We will need the following documentation to clear incoming airfreight shipments:

1. AWB Copy
2. Copy of Commercial Invoice
3. Packing lists

Couriered shipments:

1. AWB Copy
2. Copy of Commercial Invoice

We recommend at least 2 working days to allow for the Customs clearances.

Please ensure the cargo is booked directly to Cape Town and on the AWB it's marked as top urgent ship spares in transit.

February 5 2020:

Dear A13.5 PIs and logistics people,

We have received approval from the PNE chief scientist and from the ship to offload all our gear in San Diego. However, everything will need to be fully packed, labelled and secured in the storage space we have been given before leaving Praia. The walk-in fridge and freezer will remain operational and refrigerated/frozen samples can also be offloaded in San Diego. The current schedule for the Brown calls for offloading in late June 2020 (exact date TBD). I will get back to you as we near the end of A13.5 to ask for your offloading plans for San Diego.

We are still waiting for the info about the shipping agent in Cape Town. The shipping agent for Praia will be identified in early April.

January 30 2020:

Hi all,

Many thanks to all of you who have replied to my previous email with shipping, berthing, logistics etc. I have a couple more additional updates:

REMINDER: If you are shipping to Barbados and have not shared details about number of packages etc yet, please do so ASAP. Loading will be on February 20th. There is no option to load after that, so make sure your equipment is there by Feb 20th in the morning. The ship's crane will only be available on February 20th.

LOADING IN SOUTH AFRICA: No details yet on ship's agent or shipping address. Many thanks for your patience. We expect to hear from the ship very soon. I'll share the info as soon as I get it.

Mobilization day in South Africa: Loading in Cape Town will start on March 16th. Please let me know when you plan to access the ship to start setting up if you have not already done so. I expect we will be allowed to sleep on board on March 18th.

UNLOADING IN SAN DIEGO: I am building a list of all the equipment/boxes etc we hope to offload in San Diego. If you have not given me details yet, please do so ASAP. I need to bring the full list to the PNE chief scientist to determine how much of our equipment they can carry. Again, thanks to those of you who already replied about this.

Passports: For those of you not needing visas for South Africa and/or Cabo Verde (e.g. U.S. citizens), please make sure you have enough empty blank pages on your passports and check the expiration dates. Let me know if you would like an official travel letter for South Africa (since you may not have a return flight).

Glove use during sampling: in the past we have had issues with glove use, and with what type of gloves different participants used. Please let me know if you will be using gloves for your sampling, and what types of gloves you plan to use. Let me know if there is a certain type of glove that would damage your sample (I vaguely recall an issue about nitrile gloves and nutrients???). If you expect all other participants to also use gloves due to your sampling requirements, please consider packing a couple of extra boxes of gloves. How many times can the gloves be re-used?

January 9 2020:

Dear cruise participants and cruise PI's,
I have a number of IMPORTANT logistics and information updates, so please read carefully and answer the questions below. I apologize for the long email.

So far, the Ron Brown is on time with the cruise schedule. Our current schedule calls for a departure from Cape Town on March 19, 2020, and arrival in Praia on May 2, 2020. However, it is still a little early to know for sure that these are the final dates. Attached is a file with our intended station locations. Compared to the 2010 occupation, 4 stations have been dropped (the ones closest to the Ghana coast) due to security concerns.

There is also important information on our cruise website:
https://www.aoml.noaa.gov/ocd/gcc/A13.5_2020/

1. SHIPPING LOGISTICS

As previously mentioned, you have the option to ship your gear to Barbados or to Cape Town. Please let us know where you intend to ship your equipment and provide details (e.g. number of packages, etc) so we can keep track (see attached spreadsheet).

The ship's agent in Barbados has been identified. You may use the same agent for your shipping, but you need to create YOUR OWN CONTRACT so the ship isn't charged fees for your shipments. If you want to use them, let me know, I will provide details and email addresses of people who will need to be apprised.

The agents in Cape Town and Praia have not been identified yet.

2. OFFLOADING LOGISTICS

There is a possibility that some of the gear could be offloaded in San Diego. If you would be interested in this option, please let me know and provide dimensions and requirements of the equipment you would like to leave on board. No guarantees!

3. CRUISE LOGISTICS

For lead PI's/analysts:

LAB SPACE and ALLOCATION: Please get back to me with your bench and lab requirements. Include refrigerator/freezer volume requirements, hood access, sink access, etc.

Even if you've done these cruises dozens of times before, pretend I haven't and have no idea what you will need. Please tell me in detail.

HAZMAT: I need a FULL list of the hazmat you will use on board. Please include spill control details etc.

FLOATS/BUOYS: gentle reminder to fulfill the document I sent you. The ship has requested a draft of deployment location sites.

REMOTE PARTICIPANTS: if you are not sending a cruise participant but expect us to assist with instrument operation or sample collection, please send me a document with requirements and instructions.

For cruise participants:

BERTHING: We will be traveling at full capacity, so everyone will share a room. If you have a preference for someone you would like to share your room with (or someone you really would rather not share with), please let me know. Berthing will be assigned based on a variety of factors including but not limited to gender, work shift, or seniority.

FOOD RESTRICTIONS: If you have any food restrictions or dietary preferences, please let us know so we can let the ship know in time to plan adequately.

NOAA Health questionnaire and TB test: All cruise participants need to submit a questionnaire to NOAA Health Services. The form can be downloaded from the cruise website. NOAA also requires that all participants be tested for tuberculosis prior to being authorized to sail. Please email me if you have questions about this.

4. TRAVEL INFORMATION:

VISA REQUIREMENTS: Please check what your visa requirements are based on the passport you will be using for travel. For those of you traveling on a US passport:

South Africa (<https://travel.state.gov/content/travel/en/international-travel/International-Travel-Country-Information-Pages/SouthAfrica.html>): U.S. citizen visitors to South Africa for stays of up to 90 days for tourism, short business meetings, or in transit do not require visas in advance. Visitor visas will be issued at the port of entry in South Africa. If you travel to South Africa for any other purpose (e.g. employment or study), you must obtain a visa in advance.

Cabo Verde (<https://travel.state.gov/content/travel/en/international-travel/International-Travel-Country-Information-Pages/CaboVerde.html>): Two types of visas are available: a single-entry visa valid for up to 90 days or a multiple-entry visa valid for five years. You can apply for a visa at the [Cabo Verdean Embassy](#) in Washington, D.C. Please see their [website](#) for the most up-to-date visa requirements. You may also apply for a visa upon arrival, valid for a single entry stay of 30 days, and pre-pay at least five days prior to traveling through www.ease.gov.cv, or apply

and pay, in cash (Euros, U.S. Dollars, or Cabo Verdean Escudos) or by Visa/Mastercard credit card, upon arrival at one of the country's four international airports:

- Nelson Mandela International Airport
- Cesaria Evora Airport
- Amilcar Cabral International Airport
- Aristides Pereira International Airport

I reached out to the US embassy in Cabo Verde regarding our arrival by boat and not via flight and this is what they replied: "Good morning, you can request a Visa upon arrival, or you can make a pre-registration on this site (<https://www.ease.gov.cv/>), for more information visit this site (<https://portalconsular.mnec.gov.cv/en/vistos>), you can also contact the Border Police to help you (00238 3360414) with more information."

Based on this information I think pre-registering at www.ease.gov.cv will be the easiest choice, but each person needs to make the decision that makes more sense for their particular situation. There is a fee associated with this single entry visa that needs to be paid either through the website or upon arrival there (with a small surcharge).

If you (like myself) will not be traveling on a US passport, please check what the situation is for your particular case. If you will need a visa, please initiate the process as soon as possible, and keep me apprised of progress. Some of you may need a letter from me to justify a one way instead of round trip flight. Contact me for such a letter.

VACCINATIONS: please check what the recommended vaccines are for South Africa and Cabo Verde.

Here are the recommendations from the CDC:

South Africa: <https://wwwnc.cdc.gov/travel/destinations/traveler/none/south-africa>

Cabo Verde: <https://wwwnc.cdc.gov/travel/destinations/traveler/none/cape-verde>

November 6 2019:

Dear all,

1. I have attached an excel spreadsheet to this email. Please look at it and fill in the info with the estimate of niskin water requirements for your parameter (including rinsing volume!). Please also add whether you plan to sample from all or select depths (if so, which ones?). We have received an inquiry from a potential cruise participant who would be interested in collecting samples for her PhD project in addition to the work she will be doing as an analyst on board. I need to know how much water would be available to her.

2. Please estimate what your DI water (DIW) requirements will be on a daily basis and add that to the spreadsheet. We will have a system on board to make DIW. However, for the first few days of the cruise the DIW system will not be working. This is because the ship will still have

fresh water from the departure port, and that one is not suitable for making DIW. Please give me an estimate for how much DIW (if any) you will need the first few days. We are anticipating around 6 days of transit time to the first station. DIC, pH, TA, pCO₂, oxygen and nutrients will be collecting underway samples during the transit, and everyone else is welcome to do the same if they want to. If you are not planning on collecting seawater but your system still needs DIW, add your parameter to the spreadsheet and tell me how much DIW you will need daily/first few days.

3. The order of parameters in the spreadsheet is a draft for what I think the sampling order will be on each station. If you think your parameter should be in a different position, let me know.