



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Atlantic Oceanographic and Meteorological Laboratory
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To Whom It May Concern,

This is to certify that the following people will be participating in a NOAA hydrographic cruise in the Atlantic Ocean in April – May 2023 as part of the international Global Ocean Ship-based Hydrographic Investigations Program (GO-SHIP, www.go-ship.org). This is a scientific research cruise on NOAA's Research Vessel *Ronald H. Brown* that will begin in Rota, Spain on 13 April 2023 and end in Reykjavik, Iceland on 09 May 2023. The cruise is one of many repeated globally as part of this program with the goal of quantifying changes and variability in ocean heat content, inorganic carbon, oxygen, nutrients, and other natural and man-made tracers of ocean circulation. During the cruise, the scientists listed below will participate in the sample collection and analysis operations on the GO-SHIP cruise. More information about this cruise can be found on https://www.aoml.noaa.gov/ocd/gcc/A16N_2023/

The purpose of this letter is to certify that the scientists listed below will leave Rota, Spain on board the NOAA Ship *Ronald H. Brown* on 13 April 2023 for an oceanographic voyage. These scientists will remain on board until arrival in Reykjavik, Iceland on 09 May 2023. This letter should be viewed as confirmation of a one-way vessel ticket from Rota, Spain to Reykjavik, Iceland.

Leticia Barbero	Eric Wisegarver	Laura Stieghorst	Leah Chomiak
Laura Cimoli	Riley Palmer	David Cooper	Victoria Dina
Audria Denner	Marina Ruddick	Carol Gonzalez	Courtney Dressler
Shannon McClish	Charles Featherstone	Isabel Schaal	Rachel Cohn
Andrew Stefanick	Dana Greeley	Michael Cappola	Ian Smith
James Hooper	Bo Yang	Bo Dong	Seamus Jameson
Kristene McTaggart	Jessica Leonard	Elliot Roberts	Patrick Mears

You may reach me via email or telephone listed in my signature below should you have any questions.

Sincerely,

Leticia Barbero, Ph.D.
Chief Scientist for 2023 NOAA's Atlantic Ocean cruise A16N
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