

## AtlantOS Ocean Hour

### Impacts of Marine Heat Waves and Cold Spells in the Atlantic Ocean

#### MEETING INFORMATION

July 20, 2022  
10:00-11:00 EDT

**Zoom link:** <https://us06web.zoom.us/j/85808139467>

#### DESCRIPTION

Marine heatwaves (MHW) are extreme climatic events in oceanic systems that can have devastating impacts on ecosystems, causing abrupt ecological changes and socioeconomic consequences. Marine heat waves are happening more frequently, with predictions of many parts of the ocean reaching a near-permanent MHW state by the late 21st century. Some of the topics for discussion here include 1) Marine heat waves and current updates on ocean conditions around North and South Atlantic and 2) The future of marine heat waves, including efforts to understand and predict future impacts.

#### OVERALL AIM

The Ocean Hour will provide an opportunity for the community to learn and engage in discussion about the current state, the challenges and the future of marine heat waves. We will share progress in specific topics, and address some of the current challenges expected in the coming years.

#### PROGRAM

Time (UTC)	Topic	Speaker
10:00 – 10:05	Welcome	Renellys Perez
10:05 – 10:15	Marine heatwaves in the context of compound extremes	Regina Rodrigues
10:15 – 10:25	Increasing severity of marine cold spells and heat waves along the Southeast US coast inner shelf	Filippos Tagklis
10:25 – 10:35	Heating up the base of the food web: a peek into phytoplankton responses to a warming world	Tatiana Rynearson
10:35 – 11:00	Panel discussion with all speakers	
11:00 – 11:30	Networking ( <a href="https://wonder.me">wonder.me</a> ) - optional	
Moderator: Mariana Rocha de Souza		

#### SPEAKER INFORMATION



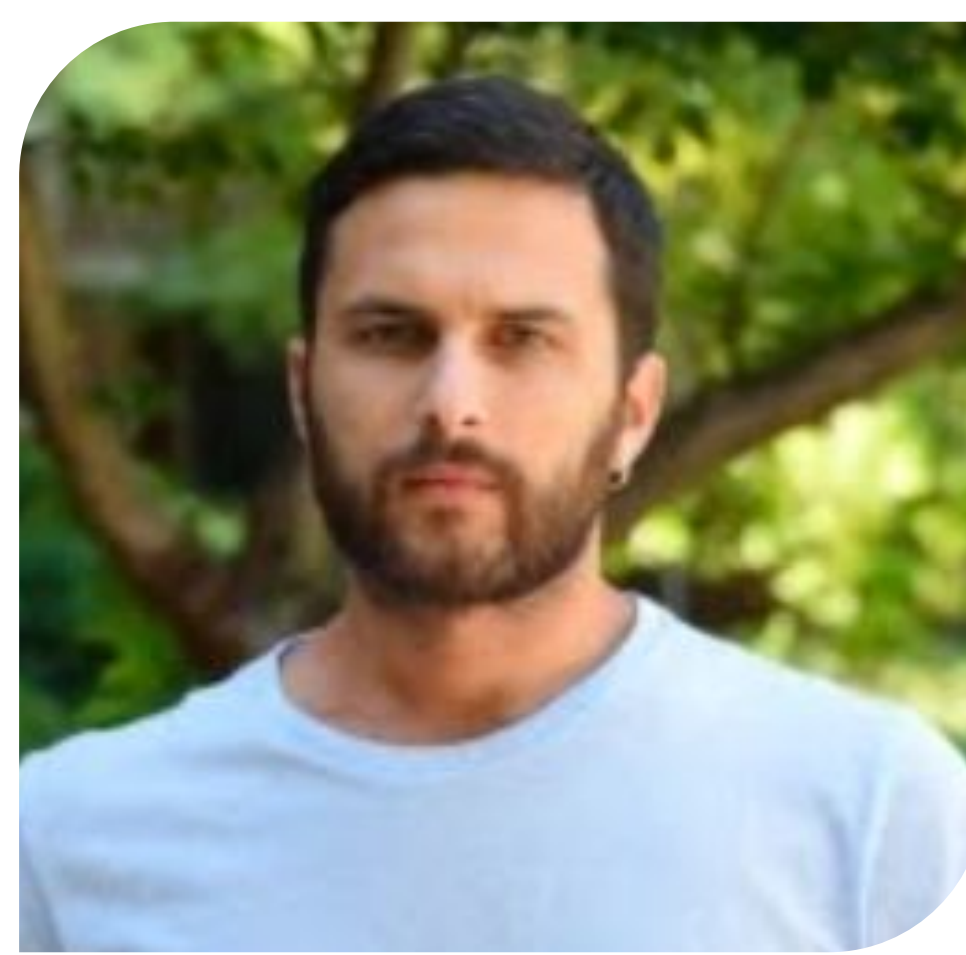
**Dr. Tatiana Rynearson**

Professor of Oceanography  
The University of Rhode  
Island



**Dr. Regina R Rodrigues**

Professor of Physical  
Oceanography Federal  
University of Santa Catarina



**Dr. Filippos Tagklis**

Postdoctoral Associate  
University of Miami/CIMAS  
NOAA/AOML



**Dr. Renellys Perez**

Physical  
Oceanographer,  
NOAA/AOML



**Dr. Mariana Rocha de Souza**

NOAA/GOMO  
Knauss Fellow

#### Steering Committee:

Jessica Snowden (USA)  
Isabel Sousa Pinto (Portugal)  
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For more information visit [atlantos-ocean.org](https://atlantos-ocean.org)  
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