

# Virtual COESSING 2020

**Live Content:** All times are in local Accra time (GMT)

Monday Aug 3	Tuesday Aug 4	Wednesday Aug 5	Thursday Aug 6	Friday Aug 7	Saturday Aug 8
9 AM: Opening Ceremony video		2 - 3 PM: An African perspective on global warming	1 - 3 PM: Studying effects of OA on species & ecosystems	2 - 3 PM: Satellite- enabled & env. research in West Africa	
3 - 5 PM: Opening Reception	3 - 5 PM: Women in STEM	3 - 5 PM: Carbon chemistry	3 - 5 PM: Pathways through STEM	3 - 5 PM: Monitoring ocean acidifica- tion (OA)	3 - 4 PM: Closing ceremony

Links for live content (Zoom links) are available in Slack.

Check instructor profiles on Slack for office hour times.

**All Content:** Unless denoted as LIVE, this material can be accessed at any time

## Satellite Oceanography

### Lecture:

- Recent advances in satellite oceanography  
*E. Nyadjro*

### Labs:

- Remote sensing in the Gulf of Guinea\*\*  
*C. Buckingham*
- Satellite oceanography applications\*\*  
*E. Nyadjro*

## Environmental Science

### Lectures:

- Pollution, ocean health, and food security  
*E. Mahu*
- Satellite-enabled & environmental research in West Africa (LIVE)  
*C. Ichoku*
- Coastal wetlands  
*M. Foster-Martinez*
- Renewable and fossil fuels (5 part series)  
*A. Simon*
- Ribbons of atmospheric moisture & growth through extremes  
*T. Osborne*
- Continental scale marine biodiversity observing network;  
*E. Montes*
- Essential biodiversity variables;  
*F. Muller-Karger*

## Python Programming

### Labs:

- Data analysis and visualization using Python  
*P. Martin*
- Labs marked with \*\* use Python

## Professional Development

### Discussions & Panels:

- Women in STEM (LIVE)  
*A. Cotel & others*
- Pathways through STEM (LIVE)  
*T. Osborne & others*
- Lightning talks  
*A. Savage & others*

## Physical Oceanography

### Lectures:

- Intro to ocean modeling  
*J. Ansong*
- Tides; *B. Arbic*
- Estuary Dynamics and Implications;  
*D. Lucas*
- Intro to hydrography  
*S. Howden*

### Discussion:

- An African perspective on global warming (LIVE)  
*G. Philander*

### Labs:

- Hands-on fluid dynamics  
*E. Shroyer & A. Cotel*
- Tidal analysis\*\*  
*S. Howden*
- Nearshore waves\*\*  
*M. Foster-Martinez*

## Chemical Oceanography

### Lectures:

- Intro to marine chemistry  
*W. Johnson*
- Metals in the ocean  
*J. Middleton*
- Intro to Ocean Acidification  
*C. Sabine*
- Advanced topics in carbonate chemistry  
*A. Dickson*

### Discussions:

- Carbon Chemistry in the Ocean (LIVE)  
*A. Dickson & C. Sabine*
- Monitoring Ocean Acidification (OA) (LIVE)  
*B. Hales & S. Chu*
- Studying effects of OA on species & ecosystems (LIVE)  
*S. Dupont*

### Labs:

- Exploring marine chemistry with ODV  
*W. Johnson*
- Surface iodide distribution in the ocean\*\*  
*M. Cook*

Note: Some titles were shortened. Please see the posts in Slack channels for the full titles and links to videos.

**Activity Descriptions:** **Lectures:** Recorded talks by the instructors. **Labs:** Guided exercises demonstrating the material. **Panels:** Live discussions with multiple speakers and time for Q&A. **Discussions:** Live conversations with participants on a particular topic. **Office Hours:** Live sessions for asking instructors questions on lecture and lab materials. Please also use Slack discussion boards to ask questions.

