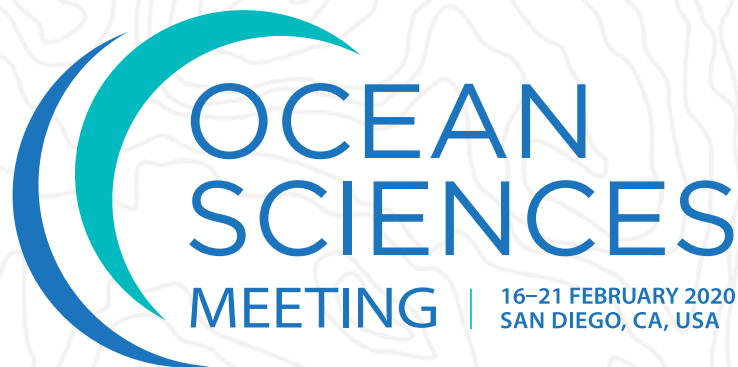


2020  
**Program  
Book**



For a  
**Resilient  
Planet**



**AGU100** ADVANCING  
EARTH AND  
SPACE SCIENCE

**ASLO** | Association for the Sciences of  
Limnology and Oceanography

 **THE  
OCEANOGRAPHY  
SOCIETY**





# Welcome

to the 2020 Ocean Sciences Meeting!

**AGU100** ADVANCING  
EARTH AND  
SPACE SCIENCE



**ASLO** Association for the Sciences of  
Limnology and Oceanography



 **THE  
OCEANOGRAPHY  
SOCIETY**





## For a Resilient Planet

This year's theme, centers around the concept that scientists, in partnership with governments and communities, have the power to affect change in fostering healthier and more resilient oceans, a safer and sustainable food supply, and to mitigate the impacts of climate change.



# General Information

This program book contains general meeting information, a meeting summary chart, and a presenting author index.

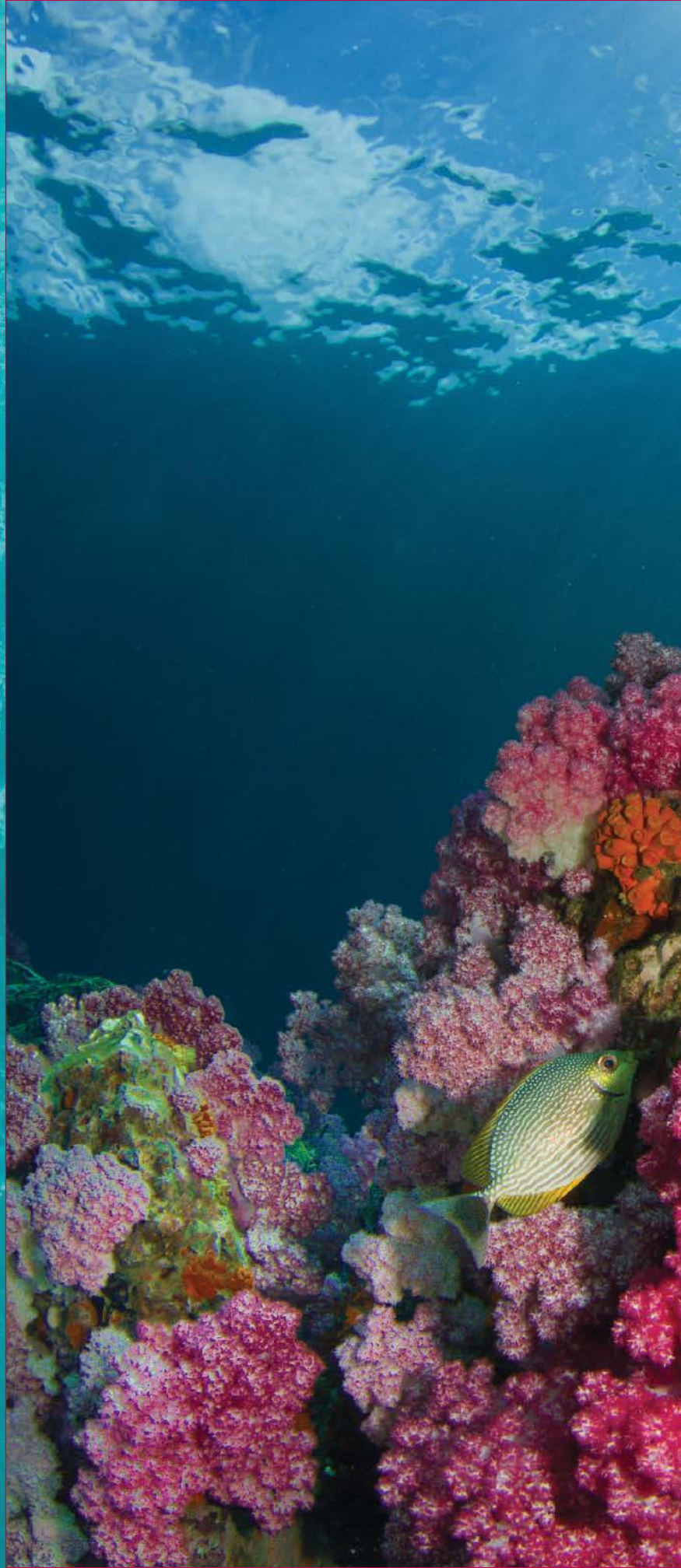
The **Meeting Summary Chart** provides a list of sessions by day, time, and discipline. Information includes the session number, title, start time, meeting room, and type of session (pages 26–69).

The **Online Schedule** allows attendees to search and view the scientific program at [oceans2020.org](https://oceans2020.org).

The **Presenting Author Index** contains presenters' names followed by the paper number that they are presenting (pages 70–90).

## Emergency Contact

We recommend that you create emergency contact information in your cell phone listed as ICE (In Case of Emergency) for emergency purposes, if necessary.





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# Meeting Services

## 5K Fun Run/Walk

**Wednesday, 7:00–8:30 a.m.**

**Race Packet Pickup Registration, Hall D Lobby**

**Tuesday, 7:30 a.m.–5:30 p.m.**

What better way to start your day than with a 5K run/walk with your colleagues. Enjoy the skyline, salt water, gentle breeze, and colorful sights along San Diego's picturesque waterfront. The start and finish of the course will be behind the Marriott Marquis along the Embarcadero. The route will proceed along San Diego Bay and around Embarcadero Marina Park North.

Visit the registration area for additional information and to receive your race packet. Please note that you will not be able to register or pick up your race packet at the starting line on Wednesday.

**Entrance fee: \$35.00**

## Exhibit Hall

**Exhibit Hall B2**

**Tuesday–Thursday, 9:30 a.m.–6:00 p.m.**

The Ocean Sciences Meeting (OSM) hosts a wide range of exhibitors with the latest in the field. Please schedule time to walk through the Exhibit Hall and take advantage of this unique opportunity. For a complete list of exhibitors, see pages 22–24 or the OSM Mobile App.

## Mobile App

**Sunday, 2:00–7:30 p.m.**

**Monday, 7:00 a.m.–5:30 p.m.**

Download the AGU Events app to view the full OSM20 schedule, access the Scientific Program, read detailed descriptions of every event, network with attendees, and customize your calendar. The app is your resource to navigate the Ocean Sciences Meeting program from your mobile device. Need assistance? Visit the General Information Booth in the Hall D Lobby of the convention during the hours listed above.

## Press Room

**Room 16B**

**Monday–Friday, 7:30 a.m.–6:00 p.m.**

To help report on newsworthy scientific findings presented at the Ocean Sciences Meeting, a Press Room is available for reporters, press officers, bloggers, and others in which to work and mingle. In the Press Room—and in an online Virtual Press Room—members of the news media will find copies of press releases about developments in marine sciences presented at the meeting.

## Career Center and Student Lounge

**Poster Hall, Halls C–D**

**Monday–Friday, 9:00 a.m.–6:00 p.m.**

Connect with the world's top talented Earth and space scientists in one location—interview your ideal new employee or find the job that fits you perfectly! Looking for career advice? The Career Center

will have career guidance workshops, career counseling sessions, and other networking opportunities available to all attendees. Be sure to also join us for the Informal Talk series to hear from ocean sciences professionals about their careers.

## Student Presentation Evaluation Assistance

**Poster Hall, Halls C–D**

**Monday–Friday, 7:30 a.m.–6:00 p.m.**

The Student Presentation Evaluation Program Assistance booth will provide computers and staff resources for volunteer evaluators in the Student Presentation Evaluation Program.

## General Services

### Child Care

**Rooms 17A–17B**

**Sunday, 7:30 a.m.–7:30 p.m.**

**Monday–Thursday, 7:30 a.m.–6:30 p.m.**

**Friday, 7:30 a.m.–5:30 p.m.**

A child care program is available, for an additional fee, to attendees with children during the entire week of the meeting. Child care services are a contractual agreement between each individual and the child care company. AGU assumes no responsibility for the services rendered.

### Coat Check Services

**Hall D Lobby**

**Sunday, 4:00–7:30 p.m.**

**Monday, 7:00 a.m.–6:30 p.m.**

**Tuesday–Thursday, 7:30 a.m.–6:30 p.m.**

**Friday, 7:30 a.m.–5:30 p.m.**

### Family Room

**Room 18**

**Monday–Friday, 7:00 a.m.–6:00 p.m.**

A private room has been set aside for families caring for small children. The room can be used for feeding, diaper changing, etc.

### First Aid

**Hall D Lobby**

**Sunday, 2:00–7:30 p.m.**

**Monday–Friday, 8:00 a.m.–6:00 p.m.**

A First Aid Station is staffed at the San Diego Convention Center during the hours listed above. If you feel ill or need a place to lie down, go to the First Aid Station in the Hall D Lobby. In case of a medical emergency in the San Diego Convention Center, please dial 0 from any house phone.

### Gender Neutral Bathrooms

**Lower Level, Lobby A**



## General Information Booth

**Registration, Hall D Lobby**

**Sunday, 2:00–7:30 p.m.**

**Monday, 7:00 a.m.–5:30 p.m.**

**Tuesday–Thursday, 7:30 a.m.–5:30 p.m.**

**Friday, 7:30 a.m.–5:00 p.m.**

General meeting information is available during the hours listed above. Lost and found items will be held in the booth until the end of each day, after which the items will be taken to the Ocean Sciences Meeting Services Booth located in the Hall D Lobby. Please note that attendees cannot be paged; we recommend that messages be left at the attendee's hotel.

## Lost and Found

Unattended personal belongings will be removed and taken to the Ocean Sciences Meeting Services Booth located in the Hall D Lobby.

## Nursing Mother's Lounge

**Lobbys A and E, Women's Restroom**

The San Diego Convention Center has a nursing mother's lounge in the women's restroom in Lobby E.

## Refreshment Breaks

**Poster Hall, Halls C–D**

**10:00–10:30 a.m.: Coffee and soft drinks**

**4:00–5:00 p.m.: Coffee, soft drinks, beer, and other refreshments**

Join your fellow attendees for refreshments, and enjoy the opportunity to network with your peers.

## Wireless Internet Service

Wireless Internet access is available throughout much of the Convention Center using the osm20 Wi-Fi network. The network access code is oceans20.

## Presenter Services

### Poster Assistance

**Poster Hall, Halls C–D**

**Monday–Friday, 7:30 a.m.–6:00 p.m.**

Staff will be available to assist you with your poster location and other on-site needs. Pushpins, tape, and scissors will be available for your use.

### Speaker Ready Room

**Room 16A**

**Sunday, 2:00–7:00 p.m.**

**Monday, 7:00 a.m.–6:00 p.m.**

**Tuesday–Thursday, 7:30 a.m.–6:00 p.m.**

**Friday, 7:30 a.m.–4:00 p.m.**

Speakers may preview and upload their presentations in the Speaker Ready Room located in Room 16A. All speakers are required to check in to the Speaker Ready Room at least 24 hours before their presentation.

## Registration Services

### Hall D Lobby

**Sunday, 2:00–7:30 p.m.**

**Monday, 7:00 a.m.–5:30 p.m.**

**Tuesday–Thursday, 7:30 a.m.–5:30 p.m.**

**Friday, 7:30 a.m.–5:00 p.m.**

Attendees must register and wear their meeting badge while attending all Ocean Sciences Meeting functions. Visit any preregistration counter in the Hall D Lobby of the San Diego Convention Center during the hours listed above to pick up your badge materials.

Questions related to the registration process? Staff will be on hand to answer your questions at the Meeting Services Booth located in the Hall D Lobby during the hours listed above.

### Guests

Registered attendees may register a guest at a charge of \$130. A guest is a spouse, friend, or adult child (18 years and older) who is not working in a marine sciences–related occupation or field. A colleague or associate working in a related marine sciences field or studying marine sciences in school may not register as a guest. Registered guests may not attend the scientific sessions, including the Poster Hall. Guests may visit the Exhibit Hall and purchase tickets to social events at the advertised rates.

### Special Needs

Persons requiring special services at the convention center (wheelchair-accessible transportation, sign interpreters, etc.) are asked to stop by the Ocean Sciences Meeting Services Booth in the Hall D Lobby. Please note that because requests were due as part of the registration process, on-site requests will be filled based on availability.

Content in this program book is current as of 12 January 2020. Download the AGU Events app for the most current up to date OSO program information.



# Plenaries and Awards

**Sunday, 16 February, 5:00–6:00 p.m., SDCC, 6A-F, UL**



**Nainoa Thompson**  
President of the Polynesian  
Voyaging Society

Explorer, environmentalist, master navigator, cultural revivalist, educator, storyteller: Nainoa Thompson has led the rediscovery and revival of the ancient Polynesian art of navigation. Through his voyaging, teaching and engagement, he has opened a global, multigenerational dialogue on the importance of sustaining ocean resources and maritime heritage. Nainoa has dedicated his life to exploring the ocean, maintaining the health of the planet and ensuring that the ancient marine heritage and culture of Polynesia remain vibrant into the future.

Thompson is the first Native Hawaiian in 600 years to practice the ancient Polynesian art of navigation: long-distance open-ocean voyaging on a traditional double-hulled canoe without the aid of modern instruments. His work has led to a renewed understanding

and revival of traditional voyaging arts lost for centuries due to the disappearance of such travel methods and the colonization and Westernization of the Polynesian archipelagos.

Currently the president of the Polynesian Voyaging Society (PVS), a non-profit research and educational organization, Thompson recently completed a four-year voyage around the world on the *Hōkūle'a*, a traditional, double-hulled voyaging canoe. Through these travels, Thompson and his crew engaged with thousands of people, including world leaders to highlight the importance of ocean resources, cultural legacies and protection of these critical places in the future.

A Native Hawaiian, Thompson's impact reaches beyond voyaging. The non-instrument navigation system Nainoa developed—blending traditional principles and modern scientific knowledge—is taught in schools throughout Hawai'i and the Pacific. This shared knowledge and his broader work with the next generation of ocean stewards is done with a hope that they will protect and continue the connection between the ocean past and future.

**Tuesday, 18 February, 10:30 a.m.–12:30 p.m., SDCC, 6A-F, UL**



**Heidi Sosik**  
Senior Scientist, Woods Hole  
Oceanographic Institution

A biological oceanographer and inventor, Sosik and her co-workers have developed automated underwater analyzers that dramatically enhance scientists' and resource managers' ability to study microscopic organisms that fuel ocean food chains, interact with Earth's climate, and sometimes produce harmful algal blooms that threaten ecosystem and human health. Heidi Sosik currently holds the Stanley W. Watson Chair for Excellence in Oceanography.

Sosik's research and leadership have been recognized through numerous honors and awards including a Presidential Early Career Award for Scientists and Engineers; The Arons Award for Excellence in Teaching, Advising and Mentoring; a NOAA/ CINAR Fellowship

in Quantitative Fisheries and Ecosystem Science; a NASA Agency Honor Award for Group Achievement; a Senior Scientist Leadership Prize; and being named a Fellow of The Oceanography Society and a Sustaining Fellow of the Association for the Sciences of Limnology and Oceanography. Sosik serves as Director of WHOI's Center for Ocean, Marine, and Seafloor Observing Systems, Chief Scientist of the Martha's Vineyard Coastal Observatory, and lead investigator for the Northeast US Shelf Long Term Ecological Research (NES-LTER) program and the Ocean Twilight Zone (OTZ) Audacious Project. She is active in many national and international roles including associate editor for leading journals, service on strategic planning and scientific steering committees, and elected officer of the American Geophysical Union.

Sosik holds S.B. and S.M. Degrees in Civil Engineering from the Massachusetts Institute of Technology and a Ph.D. in Oceanography from Scripps Institution of Oceanography at the University of California, San Diego.



**Erik van Sebille**  
Associate Professor, Utrecht University

Erik van Sebille is a physical oceanographer at Utrecht University in the Netherlands. He studies the pathways and timescales on which ocean currents transport water, nutrients, planktonic organisms and pollution such as plastic around. He is interested in how ocean currents shape ecosystems and how different ocean basins are connected. He uses Lagrangian techniques to analyse

data from ocean general circulation models and observations of drifting buoys. His is the lead of the European Research Council-funded *topios.org* project, where he and his team develop a model for the dispersion of plastic litter through the ocean, with the goal to create a three-dimensional map of marine plastic pollution and track it back to its sources. He has a passion for science communication and public engagement, having done more than 300 interviews to international media about plastic pollution and advised UK Parliament and the European Commission on the scale of the plastic problem."



# Plenaries and Awards

Wednesday, 19 February, 10:30 a.m.–12:30 p.m.,  
SDCC, 6A-F, UL



**ASLO Raymond L. Lindeman Award**  
**Cristina Romera-Castillo**  
Instituto de Ciencias del Mar-CSIC

This award was first presented in 1987 to recognize an outstanding paper written by a young aquatic scientist. The paper for which Raymond L. Lindeman is remembered, published posthumously in 1942, has since become the foundation for research on the flow of energy in plant and animal communities.



**ASLO A. C. Redfield Lifetime Achievement Award**  
**Sybil Seitzinger**  
University of Victoria

The Lifetime Achievement Award was first presented in 1994 to recognize and honor major, long-term achievements in the fields of limnology and oceanography, including research, education and service to the community and society. Emphasis in selection is given to established aquatic scientists whose work is recognized for its importance and long-term influence.



**TOS Mary Sears Medal**  
**Jane Lubchenco**  
Oregon State University

The Mary Sears Medal is awarded biennially to an individual ocean scientist who has made sustained (> 10 year since first publication), innovative, and impactful contributions to original research in the areas in the areas of biological oceanography, marine biology, or marine ecology, along with outstanding contributions to education and mentorship in the field.



**AGU Sverdrup Award**  
**Mary-Louise Timmermans**  
Yale University

The Harald Ulrik Sverdrup Lecture honors the life and work of geophysicist Harald Sverdrup. The Sverdrup Lecturer is selected for exemplifying Sverdrup's work with outstanding contributions to the basic science of the atmosphere and the oceans and/or unselfish service promoting cooperation in atmospheric and oceanographic research.

Friday, 16 February, 4:00–5:00 p.m., SDCC, 6A-F, UL



**Margaret Leinen**  
Vice Chancellor for Marine Sciences,  
Director of Scripps Institution of  
Oceanography and Dean of the  
School of Marine Sciences

Margaret Leinen, a highly distinguished national leader and oceanographer, was appointed the eleventh director of Scripps Institution of Oceanography at UC San Diego in July 2013. She also serves as UC San Diego's vice chancellor for marine sciences and dean of the School of Marine Sciences. She joined UC San Diego in October 2013.

Leinen is an award-winning oceanographer and an accomplished executive with extensive national and international experience in ocean science, global climate and environmental issues, federal research administration, and non-profit startups. She is a researcher in paleo-oceanography and paleo-climatology. Her work focuses on ocean sediments and their relationship to global biogeochemical cycles and the history of Earth's ocean and climate.

Leinen leads UC San Diego's ocean, earth, and atmospheric sciences research and education programs at Scripps Oceanography, the foremost environmental research institution that addresses the most pressing environmental problems facing our planet, provides the knowledge necessary to address these challenges, and teaches the next generation of science leaders.

# Events at a Glance

## Sunday, 16 February

Event	Location	Time	Program	Type
EXPORTS planning meeting	SDCC-3, UL	8:00 A.M.–6:00 P.M.	Events and Workshops	Committee Meeting
GEOTRACES Arctic Synthesis	SDCC-4, UL	8:00 A.M.–6:00 P.M.	Events and Workshops	Workshop
The Science of Science Communication	Marriott Marquis–Santa Rosa, L1	8:30 A.M.–5:00 P.M.	Events and Workshops	Workshop
Data Labs: Using Ocean Observatory Initiative (OOI) Data to Engage Students in Oceanography	Marriott Marquis–Solana, L1	8:30 A.M.–4:00 P.M.	Events and Workshops	Workshop
Student and Early Career Scientist Conference	SDCC-1A, UL	8:30 A.M.–4:30 P.M.	Events and Workshops	Workshop
Deep Search Project Meeting	Marriott Marquis–Point Loma, L1	10:00 A.M.–6:00 P.M.	Events and Workshops	Committee Meeting
LOREX Orientation Workshop	SDCC-1B, UL	10:00 A.M.–5:00 P.M.	Events and Workshops	Society Event
Make Your Science Communication More Effective	SDCC-2, UL	10:00 A.M.–12:30 P.M.	Events and Workshops	Workshop
Scripps Birch Aquarium Tour	OFFSITE	10:30 A.M.–3:30 P.M.	Events and Workshops	Field Trip
Sharing Science with Any Audience: an interactive workshop on the essentials of good SciComm	Marriott Marquis–Catalina, L4	12:30 P.M.–5:00 P.M.	Events and Workshops	Workshop
How to Maximize the Broader Impacts of Your Aquatic Science: Reach More People, Make a Difference	SDCC-2, UL	1:00 P.M.–4:30 P.M.	Events and Workshops	Workshop
Author/Reviewer/Editor Workshop	Marriott Marquis–Leucadia, L1	1:00 P.M.–4:30 P.M.	Events and Workshops	Workshop
Ice Breaker Reception	SDCC–West Terrace	5:45 P.M.–7:00 P.M.	Events and Workshops	Social Event

## Monday, 17 February

Event	Location	Time	Program	Type
Student and Early Career Pop-Up Talks	SDCC–Poster Hall C-D; Student Lounge and Career Center	12:45 P.M.–1:45 P.M.	Events and Workshops	Social Event
How to Write Effective Reviews (and Improve Your Own Manuscript)	SDCC-1A, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Society Event
Improv to Improve International Collaborations	SDCC-2, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Society Event
Communicating Science through Storytelling	SDCC-1B, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop



# Events at a Glance

## Monday, 17 February

Event	Location	Time	Program	Type
Science Activation: Reimagining Science Communication	Marriott Marquis–Santa Rosa, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
NOAA Modeling Forum	SDCC–3, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
CLIVAR in WCRP: Present and Future of international collaboration in climate and ocean research.	SDCC–4, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The NASA Surface Biology and Geology (SBG) mission and the observation of coastal and inland waters from space	SDCC–5A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The ICOS Ocean Thematic Centre, what it is, how it operates and what it can do to help you supply the data we need to quantify ocean carbon uptake	SDCC–5B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
MPOWIR: Building an Inclusive Community in Oceanography–How we can all contribute	SDCC–7B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Decadal prediction of the ocean: Where are we?	SDCC–11A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Developing a coordinated vision for transdisciplinary deep ocean research	SDCC–9, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
UN Decade of Ocean Science for Sustainable Development Town Hall	SDCC–10, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Student Mixer	SDCC–West Mezzanine Terrace	6:00 P.M.–7:30 P.M.	Events and Workshops	Social Event
Early Career Mixer	SDCC–West Terrace	6:00 P.M.–7:30 P.M.	Events and Workshops	Social Event
Workshop: Making Media Work for You, Your Data and Ocean Science	Marriott Marquis–Solana, L1	6:00 P.M.–9:00 P.M.	Events and Workshops	Workshop
RBR Ocean Science Slam for Early Career Scientists	SDCC–5A, UL	6:15 P.M.–7:45 P.M.	Events and Workshops	Workshop

## Tuesday, 18 February

Event	Location	Time	Program	Type
The Oceanography Society Breakfast	Marriott Marquis–San Diego Ballroom B, LL	6:45 A.M.–8:00 A.M.	Events and Workshops	Society Event
Meet Your Agency Program Manager Breakfast	Marriott Marquis–Santa Rosa, L1	6:45 A.M.–7:45 A.M.	Events and Workshops	Workshop
COVERAGE Consultative Workshop: A Distributed Data Platform Providing Enhanced Access to Inter-agency Data Products in Support of Marine Biodiversity Applications.	Marriott Marquis–Solana, L1	9:00 A.M.–12:00 P.M.	Events and Workshops	Workshop
Data FAIR Help Desk	SDCC–Exhibit Hall B2, Earthcube Data Fair Booth	9:30 A.M.–6:00 P.M.	Events and Workshops	Workshop

# Tuesday, 18 February

Event	Location	Time	Program	Type
Examining the Potential of Art-Science Collaborations in the Anthropocene	Marriott Marquis–Point Loma, L1	10:00 A.M.–12:00 P.M.	Events and Workshops	Workshop
Scripps Birch Aquarium Tour	OFFSITE	10:30 A.M.–3:30 P.M.	Events and Workshops	Field Trip
AGU Ocean Sciences Section Executive Business Meeting	Marriott Marquis–Solana, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Committee Meeting
Student and Early Career Pop-Up Talks	SDCC–Poster Hall C-D; Student Lounge and Career Center	12:45 P.M.–1:45 P.M.	Events and Workshops	Social Event
Julia (language) users and tools for oceanography	Marriott Marquis–Point Loma, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Diversifying Voices in the Ocean Sciences	Marriott Marquis–Catalina, L4	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Making Your Voice Heard With Policymakers	Marriott Marquis–Santa Rosa, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Career Panel	SDCC–10, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Framework for developing best practices for analyzing ocean mixing observations as a community	Marriott Marquis–Leucadia, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
The Future of Argo Town Hall	SDCC–3, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Ocean Partnerships for Sustained Observing: Moving Beyond the Frameworks	SDCC–4, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Observing Ocean Surface Currents From Local to Global Scales	SDCC–5A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Ocean Climate Action Plan - A Blue New Deal for our coasts and public seas	SDCC–5B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Planet Microbe Data Discovery Porta	SDCC–7B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The human dimension: integrating cultural heritage into the Decade of Ocean Science	SDCC–1A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Ocean Observatories Initiative: a catalyst for early-career, interdisciplinary research	SDCC–9, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Limnology and Oceanography Research Exchange (LOREX) for Graduate Students - Learn about this opportunity to conduct successful international collaborative research	SDCC–11A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Contributions of Early Career Ocean Professionals to the UN Decade of Ocean Sciences for Sustainable Development	SDCC, 2, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
ASLO Fellows Champagne Toast	SDCC–Exhibit Hall, B2	5:30 P.M.–6:00 P.M.	Events and Workshops	Society Event
Rainbow Reception for the LGBTQIA+ Community	SDCC–West Terrace	6:00 P.M.–8:00 P.M.	Events and Workshops	Social Event
Comedy Session	SDCC–2, UL	6:15 P.M.–8:15 P.M.	Events and Workshops	Social Event
Scientific Publication Workshop with the Editors in Chief of ASLO's Limnology & Oceanography and AGU's Journal of Geophysical Research Biogeosciences	SDCC–1A, UL	6:30 P.M.–8:30 P.M.	Events and Workshops	Society Event
All Hands on Deck: Results of the 2018 National Ocean Exploration Forum	SDCC–4, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
NSF Office of Polar Programs Arctic Science–Open Meeting	SDCC, 1B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall



## Tuesday, 18 February

Event	Location	Time	Program	Type
PO.DAAC Today and Tomorrow: Current and Future Data Tools and Services	SDCC-5A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Dynamic ocean management in support of climate-resilient fisheries	SDCC-5B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Data FAIR: Planning to publish? Where is your data? Can you cite it? What about your software?	SDCC-7B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Progress Related to Global Deep Ocean Observing	SDCC-9, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Advancing Public-Private Partnerships in Ocean Science and Technology	SDCC-10, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
NASA Ocean Sciences Town Hall	SDCC-11A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
The University of Miami's Rosenstiel School of Marine and Atmospheric Science Alumni and Friends Reception	SDCC-West Mezzanine Terrace	7:30 P.M.–9:30 P.M.	Events and Workshops	Social Event
Jam Session	Tin Roof Live	7:30 P.M.–11:00 P.M.	Events and Workshops	Social Event

## Wednesday, 19 February

Event	Location	Time	Program	Type
Science Policy Networking Breakfast	Marriott Marquis-Catalina, L4	6:45 A.M.–7:45 A.M.	Events and Workshops	Society Event
Meet Your Agency Program Manager Breakfast	Marriott Marquis-Santa Rosa, L1	6:45 A.M.–7:45 A.M.	Events and Workshops	Workshop
International Alliance to Combat Ocean Acidification: Emphasizing Regional Collaborations and OA Action Planning	Marriott Marquis - Point Loma, L1	9:30 A.M.–3:30 P.M.	Events and Workshops	Workshop
Data FAIR Help Desk	SDCC-Exhibit Hall B2, Earthcube Data Fair Booth	9:30 A.M.–6:00 P.M.	Events and Workshops	Workshop
Teaching and Learning During the Climate Crisis-Promoting Positive Thinking and Meaningful Action	Marriott Marquis-Leucadia, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Society Event
K-12 Day Luncheon	Marriott Marquis-Catalina, L4	12:45 P.M.–1:45 P.M.	Events and Workshops	Society Event
Meditation for Scientists	SDCC-5A, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Interdisciplinary Presentations Workshop	SDCC-2, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Professional certification in the marine and oceanographic communities	SDCC-1A, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Science Activation: Workshop for Policy Engagement	Marriott Marquis-Santa Rosa, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Career Panel	SDCC-10, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Connect with NOAA National Centers for Environmental Information (NCEI)	SDCC-3, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Supporting Marine Renewable Energy Development through Multi-Scale Testing	SDCC-4, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall

## Wednesday, 19 February

Event	Location	Time	Program	Type
Update on the Second International Indian Ocean Expedition (IIOE-2)	SDCC-5B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
A Global Database of Diazotrophs and N <sub>2</sub> Fixation in the World's Ocean	SDCC-7B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Teaching Marine Sciences to non-majors at Community Colleges	SDCC-1B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Expanding the Reach of the Research Fleet: Autonomous (and Piloted) Airborne Systems in Support of Ocean Sciences	SDCC-9, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Ocean Science Applications at the European Space Agency	SDCC-11B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Expanding Access to Critical Marine Biological Diversity Observations	SDCC-7A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Southern Ocean Air-Sea Flux (SOFLUX) Town Hall	SDCC, 8, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
TOS Strategy 2030	SDCC-11A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Observations for the Present and Future—A Panel of Vendors' Views on Technology	SDCC-8, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
International collaborations for the education of future leaders in Ocean Sciences	Marriott Marquis–Leucadia, L1	6:00 P.M.–9:00 P.M.	Events and Workshops	Workshop
How Do You Attempt Public Outreach?	SDCC-2, UL	6:15 P.M.–9:15 P.M.	Events and Workshops	Workshop
NOAA Ocean Satellite Data Products for Science and Applications	SDCC-3, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
National Science Foundation division of Ocean Sciences Town Hall	SDCC-4, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Students for Ocean Solutions	SDCC-5A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Data FAIR: Ocean Data Integration – Challenges, Successes, Tools, and Platforms	SDCC-5B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Making your Science Matter: Lessons for the Future from Twenty Years of Science Communication and Engagement	SDCC-7B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
The IPCC Special Report on Ocean and Cryosphere in a Changing Climate – Challenges, Opportunities and Future Scenarios	SDCC-1A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
20 years of the U.S. Integrated Ocean Observing System: Celebrating the successes and charting the future	SDCC-1B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Capacity Development: A Major Need for Ocean Observing, Monitoring, Analysis and Forecasting	SDCC-9, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall

## Thursday, 20 February

Event	Location	Time	Program	Type
Ocean Policy Career and Engagement Opportunities Panel Discussion	Marriott Marquis–Catalina, L4	6:45 A.M.–7:45 A.M.	Events and Workshops	Workshop
Meet Your Agency Program Manager Breakfast	Marriott Marquis–Santa Rosa, L1	6:45 A.M.–7:45 A.M.	Events and Workshops	Workshop
Data FAIR Help Desk	SDCC–Exhibit Hall B2, Earthcube Data Fair Booth	9:30 A.M.–6:00 P.M.	Events and Workshops	Workshop



# Thursday, 20 February

Event	Location	Time	Program	Type
Guided Tour of R/V Sally Ride at Scripps Nimitz Marine Facility	OFFSITE	9:30 A.M.–12:00 P.M.	Events and Workshops	Field Trip
Scripps Birch Aquarium Tour	OFFSITE	10:30 A.M.–3:30 P.M.	Events and Workshops	Field Trip
TOS Members Meeting	SDCC–11A, UL	12:45 P.M.–1:30 P.M.	Events and Workshops	Society Event
Chemical Speciation Modelling in Seawater to Meet 21st Century Needs	SDCC–1A, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
The Federal Budget and You	Marriott Marquis–Santa Rosa, L1	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Career Panel	SDCC–10, UL	12:45 P.M.–1:45 P.M.	Events and Workshops	Workshop
Ocean Observatories Initiative Facility Board Town Hall	SDCC–3, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Atlantic Meridional Overturning Circulation (AMOC): A Decade of Progress	SDCC–5B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
Scientific Response to an Ever Faster Changing Arctic: Making the Most of Our Collective Research Efforts	SDCC–1B, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
IndOOS-2: A Roadmap to Better Observations and Predictions of the Rapidly Warming Indian Ocean	SDCC–9, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Next Decade of NOAA's Ocean Acidification Science	SDCC–4, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Joint Exploration of the Twilight Zone Ocean Network (JETZON)	SDCC–5A, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
The Future of the Ocean Sciences Meeting: Opportunities and Challenges of Remote Participation	SDCC, 8, UL	12:45 P.M.–1:45 P.M.	Town Halls	Town Hall
TOS Council Meeting	SDCC–19, Mezzanine	1:45 P.M.–3:30 P.M.	Events and Workshops	Society Event
Can We Talk? 2 Difficult Conversations with Underrepresented People of Color: Sense of Belonging and White Allies in STEM	SDCC–2, UL	6:30 P.M.–9:00 P.M.	Events and Workshops	Workshop
All-Atlantic Ocean Observing System (AtlantOS Program) Town Hall	SDCC - 7A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Estimating the Circulation and Climate of the Ocean (ECCO) Town Hall: The Latest Global Ocean and Sea Ice State Estimate from the ECCO Consortium	SDCC–3, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
International Ocean-Colour Coordinating Group (IOCCG) Town Hall	SDCC–4, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
SOCCOM and the future of BGC-Argo in the U.S.	SDCC–5A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
When Your Students Want To Change The World: Resources, Tools And Techniques To Support You And Your Students/Mentees In Growing Capacity At The Science-Policy Interface	SDCC–5B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Data FAIR: Ocean Data Viz – Beautiful Data, Understandable Visualizations	SDCC–7B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Culinary conservation: Saving the ocean - and increasing the value of local fisheries - by promoting full utilization across the seafood supply chain	SDCC–1A, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall
Excellence in Partnering Award	SDCC–1B, UL	6:30 P.M.–7:30 P.M.	Town Halls	Town Hall

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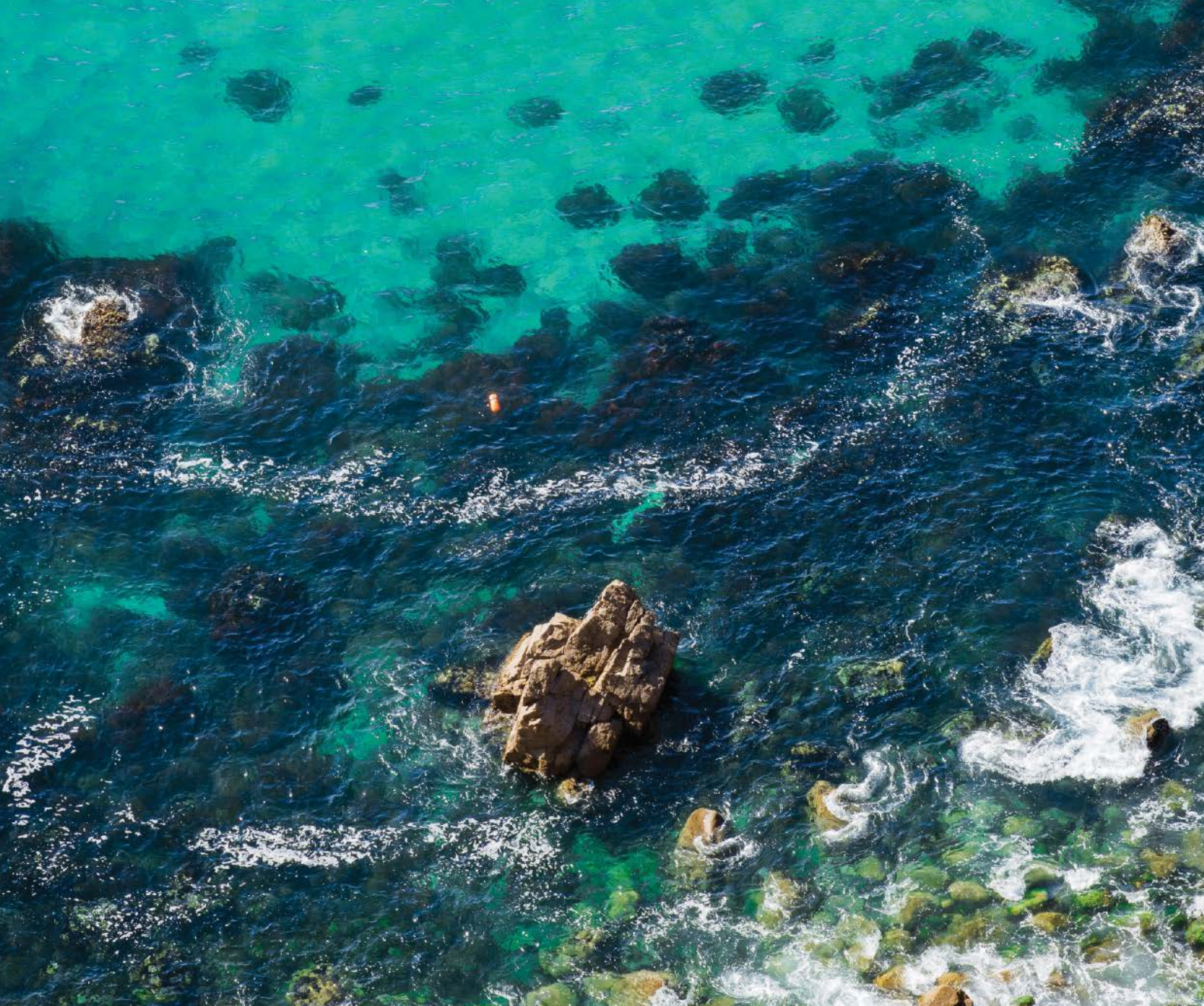
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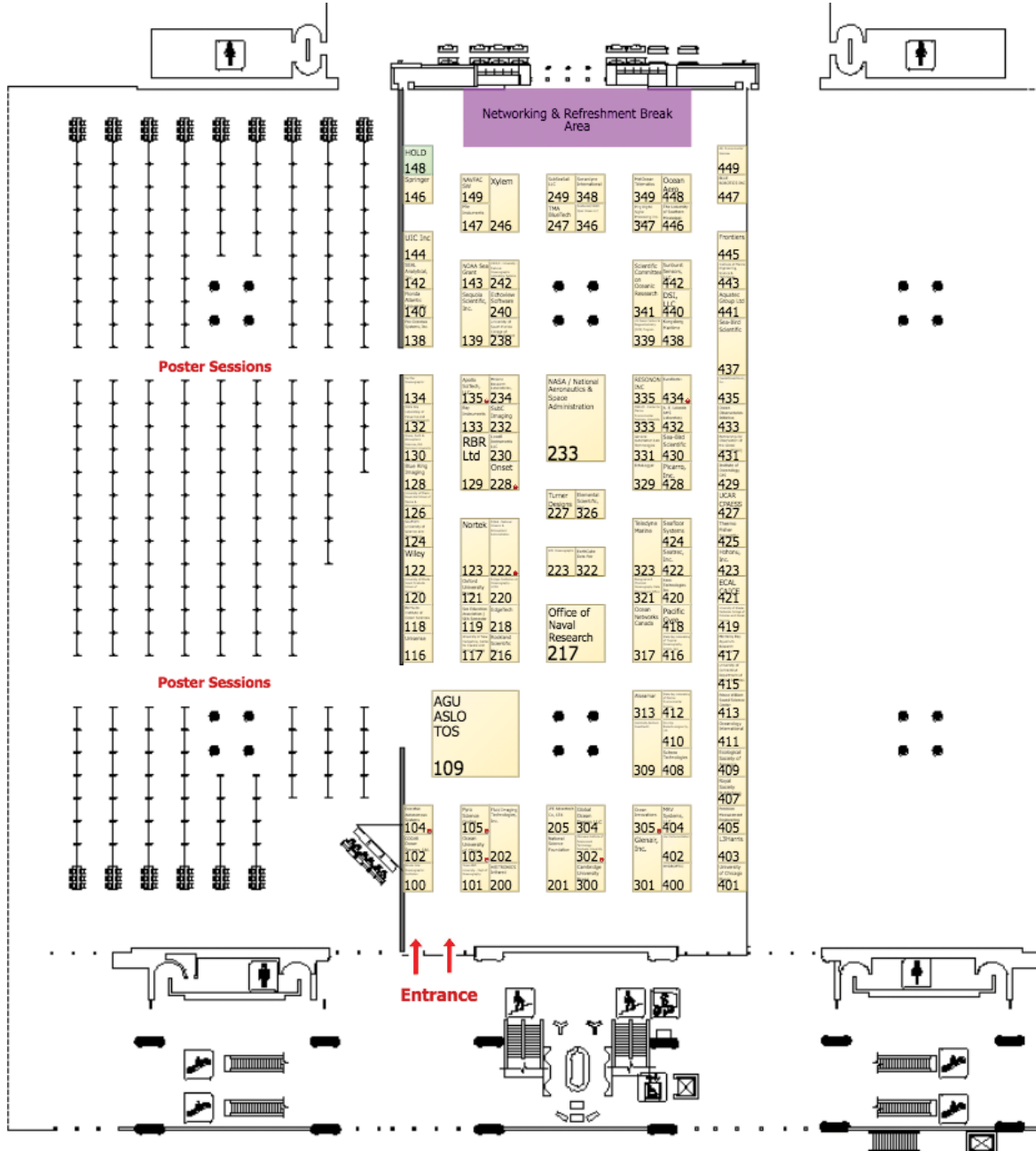
The Ocean Sciences Meeting is the **flagship conference** for the **ocean sciences** and the **larger ocean-connected community**.



# Floor Plans

## Exhibit Hall

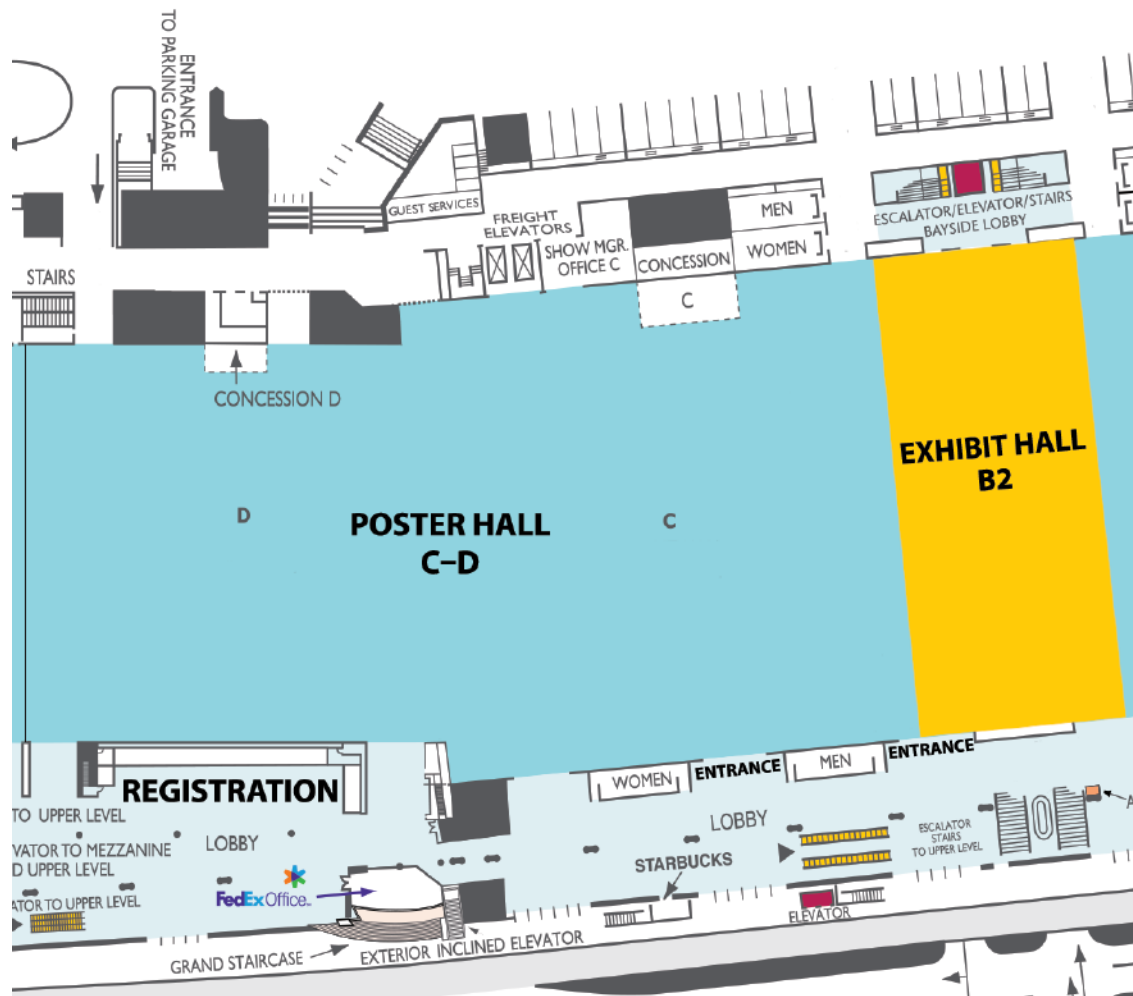
(as of 15 January 2020;  
View the exhibitor descriptions  
via the OSM Mobile App.)





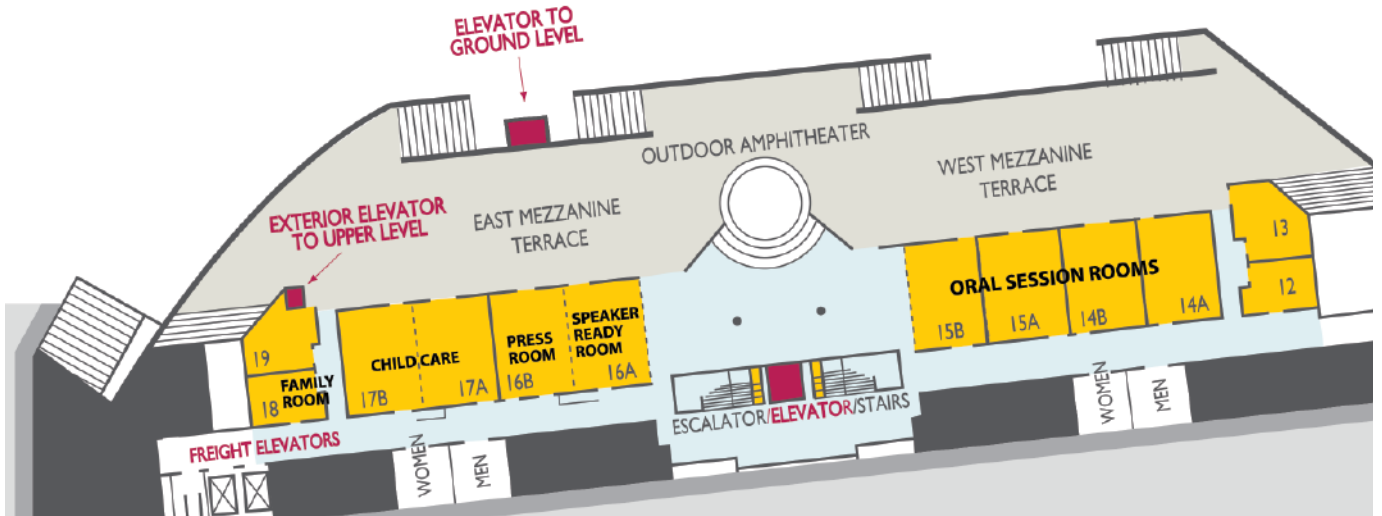
# SDCC

## Ground Level



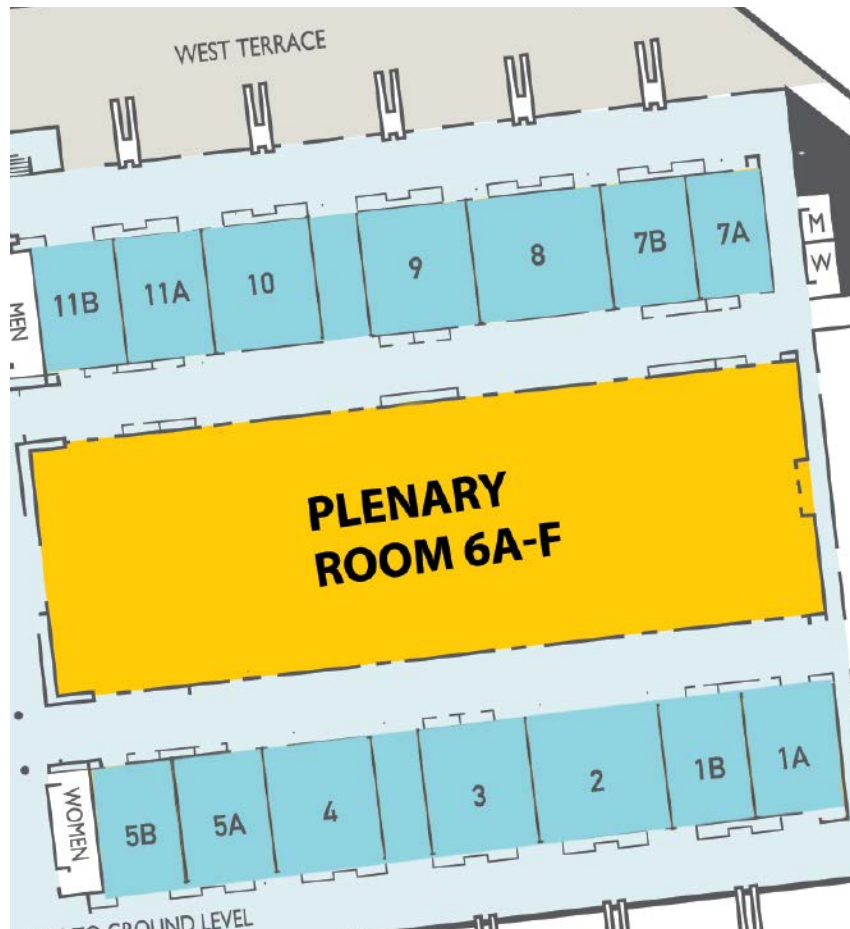
# SDCC

## Mezzanine Level



# SDCC

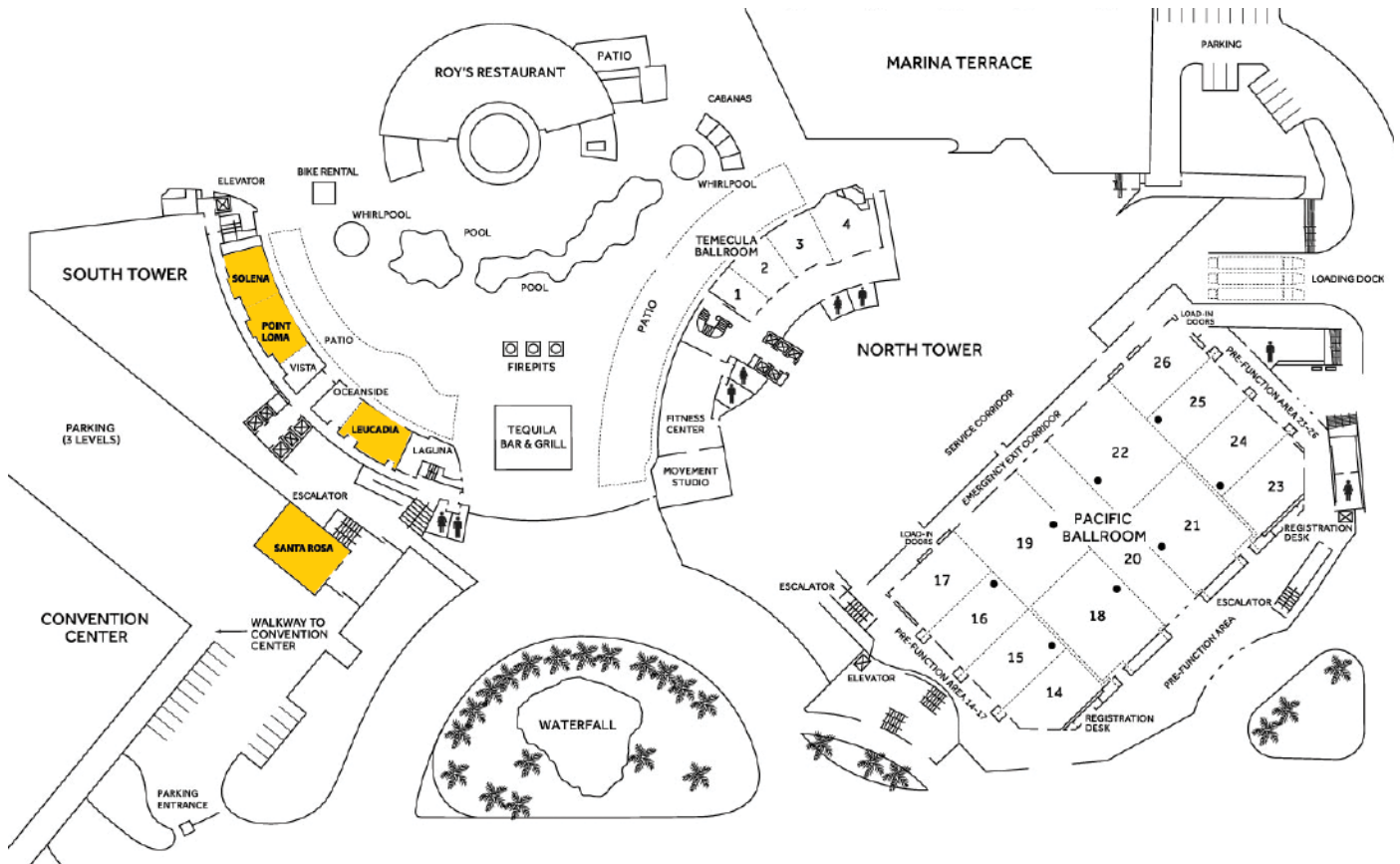
## Upper Level





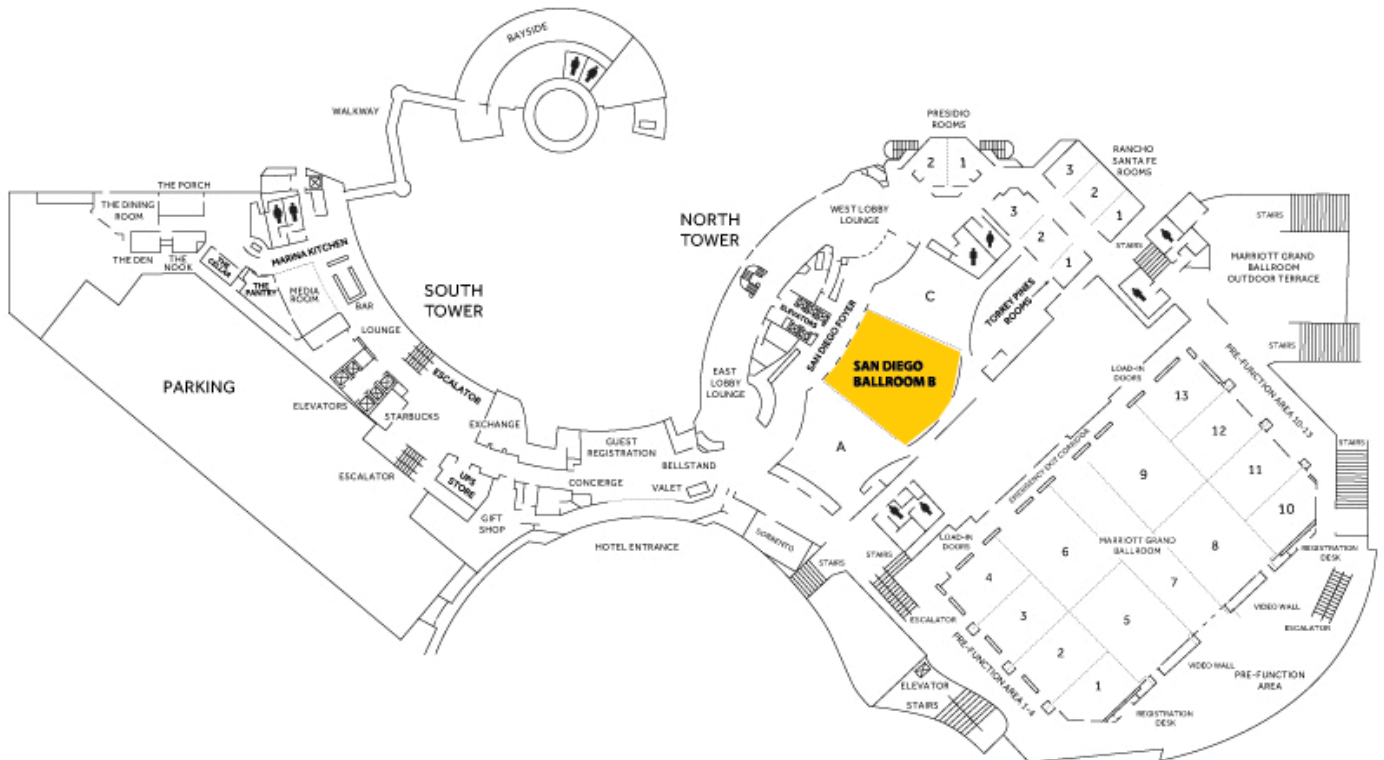
# San Diego Marriott Marquis

## First Floor (Ground Level)



# San Diego Marriott Marquis

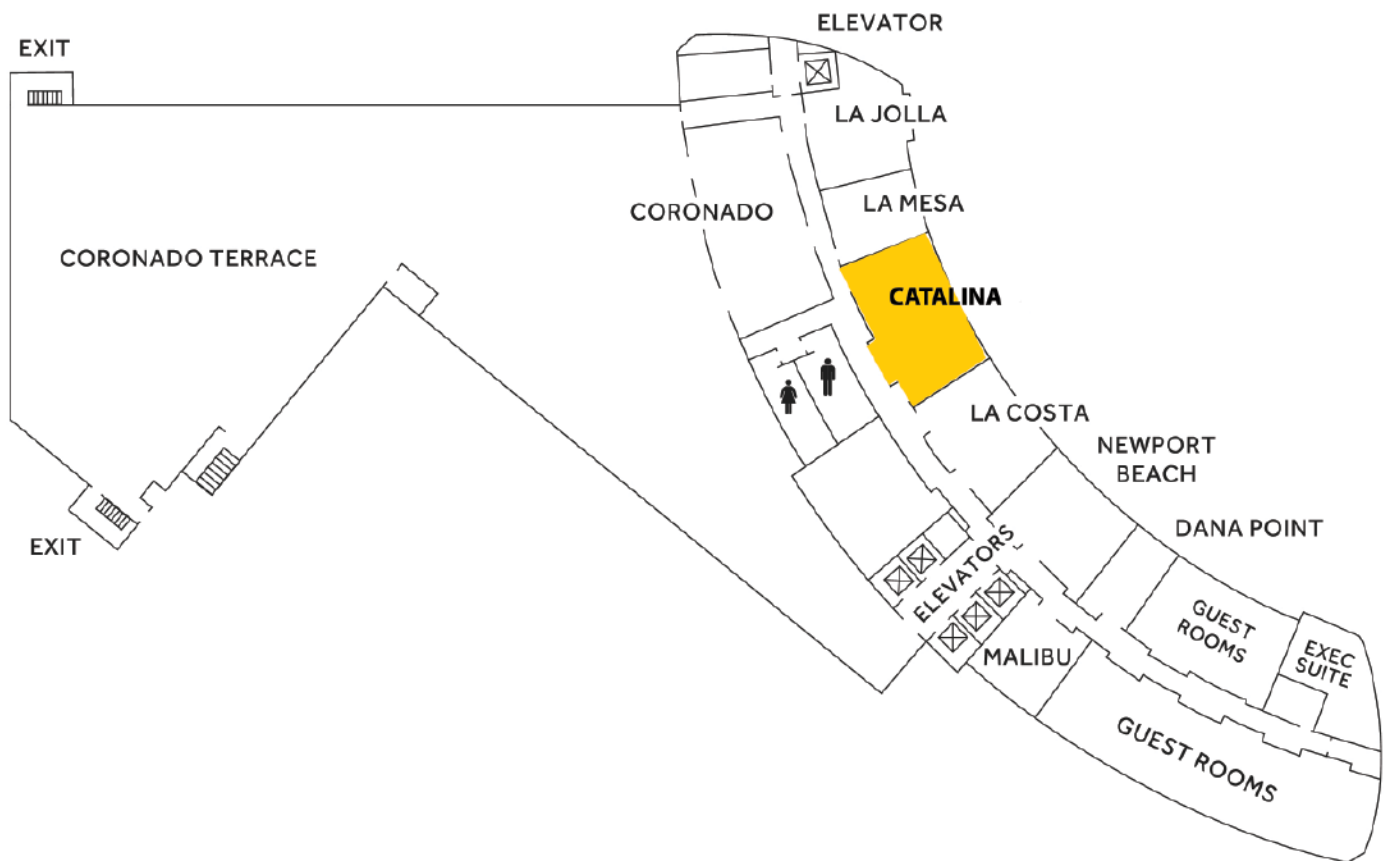
## Second Floor (Lobby Level)





# San Diego Marriott Marquis

## Fourth Floor (South Tower)



# Exhibitors

<b>Exhibitors (as of 3 January 2020)</b>	<b>Booth #</b>
A. E. Lalonde AMS Laboratory	432
AGU/ASLO/TOS	109
Alseamar	313
AML Oceanographic	223
Apollo SciTech, LLC	135
Aquatec Group Ltd	441
ASL Environmental Sciences	449
Bay Instruments	133
Bermuda Institute of Ocean Sciences	118
Biological and Chemical Oceanography Data Management Office	321
Blue Ring Imaging	128
BLUE ROBOTICS INC	447
Cambridge University Press	300
CoastalOceanVision, Inc.	435
CODAR Ocean Sensors, Ltd.	102
Del Mar Oceanographic	134
DSI, LLC	440
EarthCube Data Fair	322
ECAL CAICE	421
EchoLogger	329
Echoview Software	240
Ecological Society of America	409
EdgeTech	218
Elemental Scientific, Inc.	326
Eurofleets+	434
Exocetus Autonomous Systems	104
Florida Atlantic University	140
Fluid Imaging Technologies, Inc.	202
Frontiers	445
General Automation Lab Technologies	331
Glenair, Inc.	301
Global Ocean Design LLC	304
HEITRONICS Infrared	200
Helmholtz-Zentrum Geesthacht	309
Hohonu, Inc.	423
HYDROPTIC	400
Institute of Marine Engineering, Science & Technology	443
Institute of Oceanology, CAS	429
JFE Advantech Co., LTd.	205

<b>Exhibitors (as of 3 January 2020)</b>	<b>Booth #</b>
Kongsberg Maritime	438
L3Harris	403
Lowell Instruments LLC	230
MARUM - Center for Marine Environmental Sciences, University of Bremen	333
McLane Research Laboratories, Inc.	234
MetOcean Telematics	349
Monterey Bay Aquairum Research Institute	417
MRV Systems, LLC	404
Mte Instuments	147
NASA / National Aeronautics & Space Administration	233
National Science Foundation	201
NAVFAC SW	149
nke Instrumentation	402
NOAA - National Oceanic & Atmospheric Administration	222
NOAA Sea Grant	143
Nortek	123
Ocean Aero	448
Ocean Innovations	305
Ocean Networks Canada	317
Ocean Observatories Initiative	433
Ocean University of China	103
Ocean, Earth & Atmospheric Sciences, Old Dominion University	130
Oceanology International	411
Office of Naval Research	217
Okinawa Institute of Science and Technology Graduate University	302
On-chip Biotechnologies Co., Ltd.	410
Onset	228
Oxford University Press	121
Pacific Gyre	418
Partnership for Observation of the Global Ocean (POGO)	431
Picarro, Inc.	428
Ping Digital Signal Processing Inc. (Ping DSP)	347
Precision Measurement Engineering	405
Prince William Sound Science Center	413
Pro-Oceanus Systems, Inc.	138
Pyro Science GmbH	105
RBR Ltd	129
RESONON INC	335
Rockland Scientific Inc.	216



<b>Exhibitors (as of 3 January 2020)</b>	<b>Booth #</b>
Royal Society Publishing	407
Scientific Committee on Oceanic Research	341
Scripps Institution of Oceanography - UCSD	220
Sea Education Association   SEA Semester	119
Sea-Bird Scientific	430
Sea-Bird Scientific	437
Seafloor Systems	424
SEAL Analytical, Inc.	142
SeaRocket/HAWX Open Ocean LLC	346
Seatrec, Inc.	422
Sequoia Scientific, Inc.	139
Sonardyne International	348
Southern University of Science and Technology	124
Springer	146
State Key Laboratory of Estuarine and Coastal Research	132
State Key Laboratory of Marine Environmental Science	412
State Key Laboratory of Tropical Oceanography, SCSIO, CAS	416
SubC Imaging	232
Subsea Technologies	408
SubSeaSail LLC	249
Sunburst Sensors, LLC	442
Teledyne Marine	323
Texas A&M University - Dept of Oceanography	101
The University of Southern Mississippi	446
Thermo Fisher Scientific	425
TMA BlueTech	247
Turner Designs	227
UCAR CPAESS	427
UIC Inc	144
Unisense	116
University of Alaska Fairbanks College of Fisheries and Ocean Sciences	419
University of Chicago Press	401
University of Connecticut Department of Marine Sciences	415
University of Miami- Rosenstiel School of Marine & Atmospheric Science	126
University of New Hampshire, Center for Coastal and Ocean Mapping	117
University of Rhode Island Graduate School of Oceanography	120
University of South Florida College of Marine Science	238
UNOLS - University - National Oceanographic Laboratory Systems	242
US Ocean Carbon & Biogeochemistry (OCB) Program	339
Wiley	122
Woods Hole Oceanographic Institution	100
Xeos Technologies Inc.	420
Xylem	246



It is increasingly important to gather as a **scientific community** to raise awareness of the **truly global dimension of the ocean**, **address environmental challenges**, and set forth on a path towards a **resilient planet**.

# Meeting Chart

## How to Read a Session Number

Session Number. A session number designates the section, or other sponsoring group, and chronology of the presentation.



**Ex:IS12C** = Marine Ecosystems, Monday, P.M., concurrent session A

Day	Time	Concurrent Session
1 = Monday	1 = AM	A
2 = Tuesday	2 = AM	B
3 = Wednesday	3 = PM	C
4 = Thursday	4 = PM	D
5 = Friday	5 = Evening	

## Abbreviations

- AI** Air-sea Interactions
- CP** Coastal and Estuarine Processes
- CT** Chemical Tracers, Organic Matter and Trace Elements
- ED** Education, Outreach and Policy
- HE** High Latitude Environments
- IS** Ocean Observatories, Instrumentation and Sensing Technologies
- ME** Marine Ecology and Biodiversity
- MG** Marine Geology and Sedimentology
- MM** Microbiology and Molecular Ecology
- OB** Ocean Biology and Biogeochemistry
- OC** Ocean Change: Acidification and Hypoxia
- OD** Ocean Data Management
- OM** Ocean Modeling
- PC** Past, Present and Future Climate
- PI** Physical-Biological Interactions
- PL** Physical Oceanography: Mesoscale and Larger
- PS** Physical Oceanography: Mesoscale and Smaller
- SI** Social-Ocean Science Interactions and SDGs

## Sunday, 16 February | P.M.

**LEGEND** ○ Oral ● Poster ● eLightning ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
	Plenary	Opening Plenary: Nainoa Thompson	5:00	6:00	6A-F, UL	Plenaries	



Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI11A	○	Extratropical Air-Sea Interactions and Extreme Events I	8:00	10:00	14B, Mezzanine	Air-Sea Interactions	PL
AI11B	○	Toward an Improved Understanding of Indian Ocean Dynamics and Its Role in the Monsoon I	8:00	10:00	14A, Mezzanine	Air-Sea Interactions	PC, PL
CP11A	○	Nearshore Processes I	8:00	10:00	8, UL	Coastal and Estuarine Processes	
CP11B	○	The Dynamics of Buoyancy-Driven Flows in Estuaries, Continental Shelves, and Polar Seas I	8:00	10:00	9, UL	Coastal and Estuarine Processes	HE, PS
CP11C	○	Water Quality Monitoring and Forecasting in Coastal and Inland Waters: Applications and Operational Services I	8:00	10:00	10, UL	Coastal and Estuarine Processes	SI
CT11A	○	Production and cycling of organosulfur and volatile organic carbon compounds: where is the field now and how do we move forward? I	8:00	10:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	AI, NC, OB
ED11A	○	Adventures, Challenges, and Benefits of Conducting International Collaborative Research I	8:00	10:00	11B, UL	Education, Outreach and Policy	
ED11B	●	Imagining Ocean Science: Education and Outreach Using Visualization, Storytelling, and the Arts I eLightning	8:00	10:00	Poster Hall C-D; eLightning Theater	Education, Outreach and Policy	SI
HE11A	○	Arctic-North Atlantic Connectivity: Variability, Changes, and Impacts of Freshwater and Heat Exchange I	8:00	10:00	1B, UL	High Latitude Environments	IS, OM, PC
ME11A	○	Impacts of Ecological Interactions on Marine Ecosystem Dynamics and Biodiversity: New Insights from Theory, Models, and Field Measurements I	8:00	10:00	7A, UL	Marine Ecology and Biodiversity	OB, OM, PI
MM11A	○	Marine Microbes in the Omics Epoch: Unveiling Their Critical Roles in the Pelagic and Benthic Environments I	8:00	10:00	2, UL	Microbiology and Molecular Ecology	
OB11A	○	Energy Metabolism and Calcification in Marine Organisms: Mechanisms and Responses to Environmental Stress I	8:00	10:00	4, UL	Ocean Biology and Biogeochemistry	ME, OC
OB11B	○	Quantifying Carbon Export Pathways in the Global Ocean I	8:00	10:00	3, UL	Ocean Biology and Biogeochemistry	CT, OM, PI
OM11A	○	Advances in Coupled Physical-Biogeochemical Modeling: Continental Shelves, Estuaries, and the Coastal Ocean I	8:00	10:00	5A, UL	Ocean Modeling	CP, OB
PC11A	○	Climate Impacts on Marine Species I	8:00	10:00	1A, UL	Past, Present and Future Climate	HE, ME
PI11A	○	Biological Coupling to Physical Forcing on Shallow-Water Ecosystems: Using Observations to Reveal Patterns and Test Mechanisms I	8:00	10:00	7B, UL	Physical-Biological Interactions	CP, ME, PS
PL11A	○	Ocean Transport and Eddy Energy I	8:00	10:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	OM, PS
PS11A	○	Turbulent Mixing of the Ocean Surface Boundary Layer: Observation, Simulation, and Parameterization I	8:00	10:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	AI, OM, OB
SI11A	○	What's My Hazard? Meaningful and Actionable Coastal Science for Property Owners, Planners, and Practitioners I	8:00	10:00	11A, UL	Social-Ocean Science Interactions and SDGs	CP, ED
AI12A	○	Extratropical Air-Sea Interactions and Extreme Events II	10:30	12:30	14B, Mezzanine	Air-Sea Interactions	PL
AI12B	○	Toward an Improved Understanding of Indian Ocean Dynamics and Its Role in the Monsoon II	10:30	12:30	14A, Mezzanine	Air-Sea Interactions	PC, PL
CP12A	○	Nearshore Processes II	10:30	12:30	8, UL	Coastal and Estuarine Processes	
CP12B	○	The Dynamics of Buoyancy-Driven Flows in Estuaries, Continental Shelves, and Polar Seas II	10:30	12:30	9, UL	Coastal and Estuarine Processes	HE, PS
CT12A	○	Revealing Biogeochemical Processes on Basin Scales through Ocean Transects I	10:30	12:30	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	NC, OB, OM

# Monday, 17 February | A.M.

LEGEND ○ Oral ● Poster ● eLightning ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
ED12A	●	Imagining Ocean Science: Education and Outreach Using Visualization, Storytelling, and the Arts II eLightning	10:30	12:30	Poster Hall C-D; eLightning Theater	Education, Outreach and Policy	SI
HE12A	○	Arctic-North Atlantic Connectivity: Variability, Changes, and Impacts of Freshwater and Heat Exchange II	10:30	12:30	1B, UL	High Latitude Environments	IS, OM, PC
IS12A	○	From Catchments to Open Ocean: Advances in Remote Sensing for Supporting Sustainable Oceans I	10:30	12:30	11A, UL	Ocean Observatories, Instrumentation and Sensing Technologies	CP, OB, PI
IS12B	○	Moving Beyond Technology: How Quantitative Image-Based Methods Help Reveal Ocean Ecology I	10:30	12:30	11B, UL	Ocean Observatories, Instrumentation and Sensing Technologies	ME, OB
IS12C	○	New Technologies and Methods in Fisheries Science II	10:30	12:30	4, UL	Ocean Observatories, Instrumentation and Sensing Technologies	ME
ME12A	○	Impacts of Ecological Interactions on Marine Ecosystem Dynamics and Biodiversity: New Insights from Theory, Models, and Field Measurements II	10:30	12:30	7A, UL	Marine Ecology and Biodiversity	OB, OM, PI
MM12A	○	Marine Microbes in the Omics Epoch: Unveiling Their Critical Roles in the Pelagic and Benthic Environments II	10:30	12:30	2, UL	Microbiology and Molecular Ecology	
OB12A	○	Quantifying Carbon Export Pathways in the Global Ocean II	10:30	12:30	3, UL	Ocean Biology and Biogeochemistry	MM, OM, PI
OM12A	○	Advances in Coupled Physical-Biogeochemical Modeling: Continental Shelves, Estuaries, and the Coastal Ocean II	10:30	12:30	5A, UL	Ocean Modeling	CP, OB
PC12A	○	Climate Impacts on Marine Species II	10:30	12:30	1A, UL	Past, Present and Future Climate	HE, ME
PI12A	○	Biological Coupling to Physical Forcing on Shallow-Water Ecosystems: Using Observations to Reveal Patterns and Test Mechanisms II	10:30	12:30	7B, UL	Physical-Biological Interactions	CP, ME, PS
PL12A	○	Ocean Transport and Eddy Energy II	10:30	12:30	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	OM, PS
PS12A	○	Turbulent Mixing of the Ocean Surface Boundary Layer: Observation, Simulation, and Parameterization II	10:30	12:30	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	AI, OM, OB
SI12A	○	Sustainable Food from the Sea: Challenges and Solutions I	10:30	12:30	10, UL	Social-Ocean Science Interactions and SDGs	

# Monday, 17 February | P.M.

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CP13A	○	Nearshore Processes III	2:00	4:00	8, UL	Coastal and Estuarine Processes	
CP13B	○	The Dynamics of Buoyancy-Driven Flows in Estuaries, Continental Shelves, and Polar Seas III	2:00	4:00	10, UL	Coastal and Estuarine Processes	HE, PS
CP13C	○	Water Quality Monitoring and Forecasting in Coastal and Inland Waters: Biogeochemistry of Urban Systems I	2:00	4:00	11A, UL	Coastal and Estuarine Processes	
CT13A	○	Revealing Biogeochemical Processes on Basin Scales through Ocean Transects II	2:00	4:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	NC, OB, OM
ED13A	○	ASLO Multicultural Program Student Symposium I	2:00	4:00	11B, UL	Education, Outreach and Policy	
IS13A	○	Operational Satellite Oceanography I	2:00	4:00	14B, Mezzanine	Ocean Observatories, Instrumentation and Sensing Technologies	OB, PL, SI
IS13B	●	Emerging Ocean Technologies: A Snapchat of New Sensors and Observing Platforms I eLightning	2:00	4:00	Poster Hall C-D; eLightning Theater	Ocean Observatories, Instrumentation and Sensing Technologies	

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
ME13A	○	Ecosystem Impacts and Ecosystem Services of Aquaculture I	2:00	4:00	7B, UL	Marine Ecology and Biodiversity	OB, OC, SI
ME13B	○	Impacts of Ecological Interactions on Marine Ecosystem Dynamics and Biodiversity: New Insights from Theory, Models, and Field Measurements III	2:00	4:00	7A, UL	Marine Ecology and Biodiversity	OB, OM, PI
OB13A	○	Benthic and Benthic-Pelagic Community Connectivity from Coastal to Deep-Ocean Environments I	2:00	4:00	4, UL	Ocean Biology and Biogeochemistry	ME, MM, OM
OB13B	○	Marine Snow and Associated Small-Scale Processes with Large-Scale Implications I	2:00	4:00	2, UL	Ocean Biology and Biogeochemistry	PI
OB13C	○	New Tools and Approaches to Constrain the Marine Nitrogen Cycle: From the Surface to the Sediments I	2:00	4:00	3, UL	Ocean Biology and Biogeochemistry	IS, MM, PI
OM13A	○	Advances in Coupled Physical-Biogeochemical Modeling: Regional to Global Scales I	2:00	4:00	5A, UL	Ocean Modeling	OB
PC13A	○	Climate Impacts on Marine Species III	2:00	4:00	1A, UL	Past, Present and Future Climate	HE, ME
PI13A	○	Cross-Shore Fluxes in Ocean Boundary Currents: Biogeochemical and Ecological Consequences I	2:00	4:00	9, UL	Physical-Biological Interactions	CP, ME, OB
PL13A	○	Ocean Transport and Eddy Energy III	2:00	4:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	OM, PS
PS13A	○	Multiscale Topographic Effects on Large-Scale Flow: From Wakes and Lee Waves to Small-Scale Turbulence and Mixing I	2:00	4:00	14A, Mezzanine	Physical Oceanography: Mesoscale and Smaller	PL
PS13B	○	Turbulent Mixing of the Ocean Surface Boundary Layer: Observation, Simulation, and Parameterization III	2:00	4:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	AI, OM, OB
TT13A	●	Easy Access to Satellite and Other Oceanographic Data Sets Using the ERDDAP Data Server	2:00	2:30	1B, UL	Tutorial Talks	IS, OD, PI
TT13B	●	How Do We Make High-Resolution Ocean Simulations Useful to the Community?	2:30	3:00	1B, UL	Tutorial Talks	OD, OM
TT13C	●	Finding Just the Data You Need: New Developments in Online Oceanographic Data Discovery Tools	3:00	3:30	1B, UL	Tutorial Talks	HE, IS, OD
TT13D	●	Pangeo: A Community Platform for Big-Data Geoscience	3:30	4:00	1B, UL	Tutorial Talks	OD, OM, PC
AI14A	●	Extratropical Air-Sea Interactions and Extreme Events III Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	PL
AI14B	●	Toward an Improved Understanding of Indian Ocean Dynamics and Its Role in the Monsoon III Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	PC, PL
CP14A	●	Methane Emissions from Coastal and Ocean Environments Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	OB
CP14B	●	Nearshore Processes VIII Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	
CP14C	●	The Dynamics of Buoyancy-Driven Flows in Estuaries, Continental Shelves, and Polar Seas IV Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	HE, PS
CP14D	●	Water Quality Monitoring and Forecasting in Coastal and Inland Waters: Applications and Operational Services II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	SI
CP14E	●	Water Quality Monitoring and Forecasting in Coastal and Inland Waters: Biogeochemistry of Urban Systems II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	
CT14A	●	Gases As Tracers of Ocean Biogeochemical and Physical Processes Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	AI, OB, OM
CT14B	●	Production and Cycling of Organosulfur and Volatile Organic Carbon Compounds: Where Is the Field Now, and How Do We Move Forward? II Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	AI, NC, OB



Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CT14C	●	Revealing Biogeochemical Processes on Basin Scales Through Ocean Transects IV Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	NC, OB, OM
ED14A	●	ASLO Multicultural Program Student Symposium II Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	
ED14B	●	Capacity Development: A Key Need for Global Ocean Observing Systems I Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	IS, SI
ED14C	●	Imagining Ocean Science: Education and Outreach Using Visualization, Storytelling, and the Arts III Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	SI
ED14D	●	Propelling the Blue Economy Through Ocean Exploration, Unmanned Systems Technology, and STEM Education I Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	IS, SI
HE14A	●	Arctic-North Atlantic Connectivity: Variability, Changes, and Impacts of Freshwater and Heat Exchange III Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	IS, OM, PC
HE14B	●	New Insights into the Beaufort Gyre of the Arctic Ocean: Scientific Questions, Observing Technologies, and Modeling Capabilities I Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	
IS14A	●	Active Optics to Sense Marine Productivity Throughout the World's Coasts and Oceans I Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	CP, OB
IS14B	●	Emerging Ocean Technologies: A Snapchat of New Sensors and Observing Platforms II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	
IS14C	●	From Catchments to Open Ocean: Advances in Remote Sensing for Supporting Sustainable Oceans II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	CP, OB, PI
IS14D	●	Moving Beyond Technology: How Quantitative Image-Based Methods Help Reveal Ocean Ecology II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	ME, OB
IS14E	●	New Technologies and Methods in Fisheries Science I Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	ME
IS14F	●	Operational Satellite Oceanography II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	OB, PL, SI
ME14A	●	Building Resilience: Exploring the Role of Marine Protected Areas in the Face of Changing Ocean Conditions I eLightning	4:00	6:00	Poster Hall C-D; eLightning Theater	Marine Ecology and Biodiversity	OC, PC, PI
ME14B	●	Building Resilience: Exploring the Role of Marine Protected Areas in the Face of Changing Ocean Conditions II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	OC, PC, PI
ME14C	●	Ecosystem Impacts and Ecosystem Services of Aquaculture II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	OB, OC, SI
ME14D	●	Impacts of Ecological Interactions on Marine Ecosystem Dynamics and Biodiversity: New Insights from Theory, Models, and Field Measurements IV Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	OB, OM, PI
ME14E	●	Ocean Epigenetics: What Are We Learning As We Explore Epigenetics in Marine Organisms and Ecosystems? I Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	CP, OC
MG14A	●	Marine Geohazards I Posters	4:00	6:00	Poster Hall C-D	Marine Geology and Sedimentology	CP, IS
MM14A	●	Marine Microbes in the Omics Epoch: Unveiling Their Critical Roles in the Pelagic and Benthic Environments III Posters	4:00	6:00	Poster Hall C-D	Microbiology and Molecular Ecology	
MM14B	●	The Microbial Phosphorus Cycle Posters	4:00	6:00	Poster Hall C-D	Microbiology and Molecular Ecology	ME, OB
OB14A	●	Benthic and Benthic-Pelagic Community Connectivity from Coastal to Deep-Ocean Environments II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, ME, OM
OB14B	●	Energy Metabolism and Calcification in Marine Organisms: Mechanisms and Responses to Environmental Stress II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, OC
OB14C	●	Marine Snow and Associated Small-Scale Processes with Large-Scale Implications II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	PI

# Monday, 17 February | P.M.

**LEGEND** ○ Oral ● Poster ● eLightning ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
OB14D	●	New Tools and Approaches to Constrain the Marine Nitrogen Cycle: From the Surface to the Sediments III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, MM, PI
OB14E	●	Quantifying Carbon Export Pathways in the Global Ocean IV Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, MM, PI
OB14F	●	The Role of Cell Size and Plankton Community Structure As Drivers of Ocean Metabolism Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, ME, MM
OM14A	●	Advances in Coupled Physical-Biogeochemical Modeling: Continental Shelves, Estuaries, and the Coastal Ocean III Posters	4:00	6:00	Poster Hall C-D	Ocean Modeling	CP, OB
PC14A	●	Climate Impacts on Marine Species IV Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	HE, ME
PC14B	●	High-Resolution Geochemical Proxies of Global Change: Progress, Problems, and Utility I Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	CT, MG, OB
PC14C	●	Key Findings of the IPCC Special Report on Ocean and Cryosphere in a Changing Climate: Challenges, Opportunities, and Future Scenarios I Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	ED, SI
PI14A	●	Biological Coupling to Physical Forcing on Shallow-Water Ecosystems: Using Observations to Reveal Patterns and Test Mechanisms III Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	CP, ME, PS
PI14B	●	Cross-Shore Fluxes in Ocean Boundary Currents: Biogeochemical and Ecological Consequences II Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	ME, OB
PL14A	●	Advances in Understanding of the Meridional Overturning Circulation in the South Atlantic Ocean: Variability, Mechanisms, and Impacts I Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	AI, OM, PS
PL14B	●	Ocean Transport and Eddy Energy IV Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	OM, PS
PS14A	●	Multiscale Topographic Effects on Large-Scale Flow: From Wakes and Lee Waves to Small-Scale Turbulence and Mixing II Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	PL
PS14B	●	Turbulent Mixing of the Ocean Surface Boundary Layer: Observation, Simulation, and Parameterization V Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	AI, OM, OB
SI14A	●	Reconstruction of Drowned Paleolandscapes and Potential Uses for Underwater Archaeology Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	CP, MG
SI14B	●	Sustainable Food from the Sea: Challenges and Solutions II Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	
SI14C	●	Transdisciplinary Approaches to Coastal Challenges Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	CP, ED, PC
SI14D	●	What's My Hazard? Meaningful and Actionable Coastal Science for Property Owners, Planners, and Practitioners II Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	CP, ED

# Tuesday, 18 February | A.M.

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI21A	○	Tropical Cyclone-Ocean Interactions: From Weather to Climate I	8:00	10:00	14A, Mezzanine	Air-Sea Interactions	PL
CP21A	○	Human Populations and Influences in the Coastal Zone: Effects on Ocean and Human Health (OHH) I	8:00	10:00	10, UL	Coastal and Estuarine Processes	MM, SI
CP21B	○	Impacts of Microplastics on Marine Organisms and Ecosystem Health I	8:00	10:00	9, UL	Coastal and Estuarine Processes	ME, OC
CP21C	○	Nearshore Processes IV	8:00	10:00	8, UL	Coastal and Estuarine Processes	

# Tuesday, 18 February | A.M.

**LEGEND**   ○ Oral   ● Poster   ● eLightning   ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CP21D	●	Hydrodynamics and Morphodynamics of Tropical Estuaries and Deltas eLightning	8:00	10:00	Poster Hall C-D; eLightning Theater	Coastal and Estuarine Processes	PS
CT21A	○	Revealing Biogeochemical Processes on Basin Scales through Ocean Transects III	8:00	10:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	NC, OB, OM
ED21A	○	Teaching with Data: Engaging Students in Learning Ocean Sciences Through Large Data Sets I	8:00	10:00	11B, UL	Education, Outreach and Policy	IS, OD, SI
HE21A	○	Changing Biogeochemical Fluxes, Biodiversity, and Ecological Processes in the Polar Seas, with Special Emphasis on the Coastal Arctic and Sustaining an Integrated Arctic Ocean Observing System I	8:00	10:00	1B, UL	High Latitude Environments	CP, IS, ME, OB, OM, PI
HE21B	○	Ice-Ocean Interactions and Circulation Around the Antarctic Margins I	8:00	10:00	2, UL	High Latitude Environments	OM, PL, PS
IS21A	○	Into the Deep: New Insights into Integrated Ocean Mapping and Habitat Characterizations of the North Atlantic and Eastern Pacific Basins I	8:00	10:00	14B, Mezzanine	Ocean Observatories, Instrumentation and Sensing Technologies	ME, OB
ME21A	○	Ecology and Biogeochemistry of Macroalgae I	8:00	10:00	7A, UL	Marine Ecology and Biodiversity	OB, PI
OB21A	○	Marine Deoxygenation in a Changing Climate: Drivers, Detection, and Ecosystem Impacts I	8:00	10:00	4, UL	Ocean Biology and Biogeochemistry	OC, PC, PI
OB21B	○	New Tools and Approaches to Constrain the Marine Nitrogen Cycle: From the Surface to the Sediments II	8:00	10:00	3, UL	Ocean Biology and Biogeochemistry	IS, MM, PI
OM21A	○	Advances in Ocean Data Assimilation, Forecasting, and Reanalysis I	8:00	10:00	5A, UL	Ocean Modeling	IS, PL, PS
PC21A	○	Atlantic Meridional Overturning Circulation: An Ongoing Challenge I	8:00	10:00	1A, UL	Past, Present and Future Climate	OM, PS
PI21A	○	From Physics to Predators: Environmental Forcing of Marine Ecosystem Hot Spots I	8:00	10:00	7B, UL	Physical-Biological Interactions	ME, PL
PL21A	○	Ocean Salinity in Support of Scientific and Environmental Demands I	8:00	10:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	CP, PS
PS21A	○	Vertical Transport: Pathways from the Surface to the Interior I	8:00	10:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	OB, PI, PL
SI21A	○	Sustaining Ocean Services in Socioecological Systems: Challenges, Opportunities, and Perspectives in Resilience Science and Natural Resource Management I	8:00	10:00	11A, UL	Social-Ocean Science Interactions and SDGs	CP, PI
	Plenary	Science Plenaries: Heidi Sosik and Erik van Sebille	10:30	12:30	6A-F, UL	Plenaries	

# Tuesday, 18 February | P.M.

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI23A	○	Mesoscale and Submesoscale Ocean-Atmosphere Interactions and Influence on Earth's Climate I	2:00	4:00	14A, Mezzanine	Air-Sea Interactions	PS
CP23A	○	Human Populations and Influences in the Coastal Zone: Effects on Ocean and Human Health (OHH) II	2:00	4:00	10, UL	Coastal and Estuarine Processes	MM, SI
CP23B	○	Impacts of Microplastics on Marine Organisms and Ecosystem Health II	2:00	4:00	9, UL	Coastal and Estuarine Processes	ME, OC
CP23C	○	Nearshore Processes V	2:00	4:00	8, UL	Coastal and Estuarine Processes	
CT23A	○	The role of micronutrient cycles in global-scale dynamics I	2:00	4:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	MG, PC



Session #	Type	Session Title	Start	End	Room	Program	CrossListings
ED23A	○	Outreach, Engagement, Impact: Translating Science Applications for Societal and Professional Benefits I	2:00	4:00	11B, UL	Education, Outreach and Policy	SI
HE23A	○	Ice-Ocean Interactions and Circulation Around the Antarctic Margins II	2:00	4:00	2, UL	High Latitude Environments	OM, PL, PS
IS23A	○	Into the Deep: New Insights into Integrated Ocean Mapping and Habitat Characterizations of the North Atlantic and Eastern Pacific Basins II	2:00	4:00	14B, Mezzanine	Ocean Observatories, Instrumentation and Sensing Technologies	ME, OB
ME23A	○	Hyperspectral Sensing of Coastal Aquatic Environments I	2:00	4:00	7A, UL	Marine Ecology and Biodiversity	IS
ME23B	○	Pelagic Tunicates: Interactions with the Lower Food Web, Higher Trophic Levels, and Effects on Biogeochemistry I	2:00	4:00	7B, UL	Marine Ecology and Biodiversity	
OB23A	○	Approaches to Studying Marine Oxygen Deficient Zones from Macro to Micro Scales I	2:00	4:00	4, UL	Ocean Biology and Biogeochemistry	CT, IS, MM, ME, OC, PI
OB23B	○	Quantifying Carbon Export Pathways in the Global Ocean III Panel	2:00	4:00	3, UL	Ocean Biology and Biogeochemistry	CT, MM, PI
OM23A	○	Advances in Ocean Data Assimilation, Forecasting, and Reanalysis II	2:00	4:00	5A, UL	Ocean Modeling	IS, PL, PS
PC23A	○	Atlantic Meridional Overturning Circulation: An Ongoing Challenge II	2:00	4:00	1A, UL	Past, Present and Future Climate	OM, PS
PC23B	●	Climate Impacts on Marine Species IV eLightning	2:00	4:00	Poster Hall C-D; eLightning Theater	Past, Present and Future Climate	HE, ME
PL23A	○	Ocean Salinity in Support of Scientific and Environmental Demands II	2:00	4:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	CP, PS
PS23A	○	Vertical Transport: Pathways from the Surface to the Interior II	2:00	4:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	OB, PI, PL
SI23A	○	Ocean-Based Solutions to Address Local to Global Human Impacts I	2:00	4:00	11A, UL	Social-Ocean Science Interactions and SDGs	CP, ED, OB, PC
TT23A	●	Creating Intuitive, Engaging Visualization: Color Tools and Strategies for Quickly and Easily Creating Visualizations Revealing Data and Communicating Science	2:00	2:30	1B, UL	Tutorial Talks	ED, OM, SI
TT23B	●	Making Science Matter: A Review of 20 Years of SciComm and Strategies for the Future	2:30	3:00	1B, UL	Tutorial Talks	ED
TT23C	●	Citizen Science in Coastal and Marine Systems	3:00	3:30	1B, UL	Tutorial Talks	ED
TT23D	●	It's All Good: The Reciprocity of Diversity in STEM Disciplines	3:30	4:00	1B, UL	Tutorial Talks	ED, SI
AI24A	●	Mesoscale and Submesoscale Ocean-Atmosphere Interactions and Influence on Earth's Climate II Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	PS
AI24B	●	Tropical Cyclone-Ocean Interactions: From Weather to Climate II Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	PL
CP24A	●	Nearshore Processes VII eLightning	4:00	6:00	Poster Hall C-D; eLightning Theater	Coastal and Estuarine Processes	
CP24B	●	Human Populations and Influences in the Coastal Zone: Effects on Ocean and Human Health (OHH) IV Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	MM, SI
CP24C	●	Impacts of Microplastics on Marine Organisms and Ecosystem Health IV Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	ME, OC
CP24D	●	Processes and Management of Altered Estuaries and Deltas in the Era of Anthropocene II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	ME, MG
CP24E	●	Regional to Global Monitoring of Coral Reef Ecosystems Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	IS, SI
CP24F	●	The Dynamics of Buoyancy-Driven Flows in Estuaries, Continental Shelves, and Polar Seas V Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	HE, PS

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CP24G	●	Transdisciplinary Research and Education in Coastal Systems Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	ED, SI
CT24A	●	Ocean Ventilation: Results and Innovations from Transient and Deliberate Tracers Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	IS, PL, PS
CT24B	●	Revealing Biogeochemical Processes on Basin Scales through Ocean Transects V Poster	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	OB, OM
CT24C	●	Significance of Photochemistry in Marine Biogeochemical Cycles Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	AI, IS, OB
CT24D	●	The Role of Micronutrient Cycles in Global-Scale Dynamics II Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	CT, MG, PC
CT24E	●	Understanding Rare Earth Element (REE) Distributions and Isotopic Ratios and the Mechanisms Behind Their Use As Tracers of (Paleo)Oceanic Processes Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	CP, MG, OB
ED24A	●	Getting Your Feet Wet in Science Policy: Options and Strategies for Engagement I Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	
ED24B	●	Outreach, Engagement, Impact: Translating Science Applications for Societal and Professional Benefits II Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	SI
ED24C	●	Training and Communication Across Disciplines and Methodological Approaches in Marine Science I Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	OD, OM
ED24D	●	Teaching with Data: Engaging Students in Learning Ocean Sciences Through Large Data Sets II Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	IS, OD, SI
HE24A	●	Arctic-North Atlantic Connectivity: Variability, Changes, and Impacts of Freshwater and Heat Exchange IV Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	IS, OM, PC
HE24B	●	Ice-Ocean Interactions and Circulation Around the Antarctic Margins III Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	OM, PL, PS
IS24A	●	Autonomous Observing Systems for Macronutrients and Bioactive Trace Metals in Coastal and Open-Ocean Settings: Present Status, Challenges, and Emerging Technologies I Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	CT, NC, OB
IS24B	●	Development and Application of Acoustical Remote Sensing Methods to Measure Ocean Parameters and Processes II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	AI, HE, OB
IS24C	●	Into the Deep: New Insights into Integrated Ocean Mapping and Habitat Characterizations of the North Atlantic and Eastern Pacific Basins III Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	ME, OB
IS24D	●	Power in Partnerships: Innovative Collaborations Between Ocean Scientists and Ocean Industry I Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	OB, PL, PS
ME24A	●	Assessing Marine Ecosystem Variability from Paleoceanographic Archives I Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	MG, PC
ME24B	●	Ecology and Biogeochemistry of Macroalgae II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	OB, PI
ME24C	●	Hyperspectral Sensing of Coastal Aquatic Environments II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	IS
ME24D	●	Microbial Interactions at the Single-Cell Level and Their Relevance in Oceanic Biogeochemical Cycles I Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	MM, NC
ME24E	●	Pelagic Tunicates: Interactions with the Lower Food Web, Higher Trophic Levels, and Effects on Biogeochemistry II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	
MG24A	●	Oceanography Beyond Earth: A Frontier in Ocean Sciences II Posters	4:00	6:00	Poster Hall C-D	Marine Geology and Sedimentology	HE, MM, OB
MM24A	●	Marine Microbes in the Omics Epoch: Unveiling Their Critical Roles in the Pelagic and Benthic Environments IV Posters	4:00	6:00	Poster Hall C-D	Microbiology and Molecular Ecology	
OB24A	●	Approaches to Study Marine Oxygen Deficient Zones from Macro to Micro Scales II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, IS, MM, ME, OC, PI

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
OB24B	●	Benthic Controls on the Marine Silica Cycle: Continental Margins to Open Ocean Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	MG, PC
OB24C	●	From the Twilight Zone to the Troposphere: Ocean Optics Applications to Biogeochemical Cycling in and Through the Surface Ocean II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	AI, IS, PI
OB24D	●	Marine Deoxygenation in a Changing Climate: Drivers, Detection, and Ecosystem Impacts II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	OC, PC, PI
OB24E	●	New Tools and Approaches to Constrain the Marine Nitrogen Cycle: From the Surface to the Sediments IV Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, MM, PI
OB24F	●	Quantifying Carbon Export Pathways in the Global Ocean V Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, MM, OM
OB24G	●	Seafloor Cold Seepage: Interactions and Effects of Hydrocarbon Emission and Methane Hydrates on the Geological and Biological Environments Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, MG, PC
OD24A	●	Cloud Data: Challenges and Successes I Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	IS
OD24B	●	Connecting Data and Managers for Real-World Needs: Innovations from the West Coast Ocean Data Portal and West Coast Ocean Alliance I Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	ED, SI
OM24A	●	Advances in Coupled Physical-Biogeochemical Modeling: Regional to Global Scales II Posters	4:00	6:00	Poster Hall C-D	Ocean Modeling	OB
OM24B	●	Advances in Ocean Data Assimilation, Forecasting, and Reanalysis V Posters	4:00	6:00	Poster Hall C-D	Ocean Modeling	IS, PL, PS
PC24A	●	Atlantic Meridional Overturning Circulation: An Ongoing Challenge III Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	OM, PS
PC24B	●	Triumphs and Disasters: Coastal, Marine, and Oceanographic Research in Small Island/ Archipelago Settings I Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	CP, ME, PS
PC24C	●	Water Mass Analyses and Transformation for Ocean Physics, Biogeochemistry, and Climate Studies I Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	OB, PI, PL
PI24A	●	From Physics to Predators: Environmental Forcing of Marine Ecosystem Hot Spots II Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	ME, PL
PL24A	●	Ocean Salinity in Support of Scientific and Environmental Demands III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	CP, PS
PL24B	●	Atlantic Ocean Variability in a Changing Climate: Observations, Modeling, and Theories IV Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	AI, HE
PL24C	●	Ocean Transport and Eddy Energy V Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	OM, PS
PS24A	●	Multidisciplinary Upscale Effects of Mesoscale, Submesoscale, and Smaller-Scale Physical Processes I Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	OM, PI, PL
PS24B	●	Turbulent Mixing of the Ocean Surface Boundary Layer: Observation, Simulation, and Parameterization IV Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	AI, OM, OB
PS24C	●	Vertical Transport: Pathways from the Surface to the Interior III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	OB, PI, PL
SI24A	●	Responses of Fishing Communities to Ocean Change Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	ME, PC
SI24B	●	Sustaining Ocean Services in Socioecological Systems: Challenges, Opportunities, and Perspectives in Resilience Science and Natural Resource Management II Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	CP, PI
SI24C	●	The Benefits of Ecosystem-Based Management for Sustainable Oceans and Blue Growth Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	



# Wednesday, 19 February | A.M.

LEGEND ○ Oral ● Poster ● eLightning ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI31A	○	Fluxes and Physical Processes Near the Air-Sea Interface: Observations and Modeling (Cosponsored by the AMS Committee on Air-Sea Interaction) I	8:00	10:00	14A, Mezzanine	Air-Sea Interactions	CP, IS, PS
CP31A	○	Human Populations and Influences in the Coastal Zone: Effects on Ocean and Human Health (OHH) III	8:00	10:00	10, UL	Coastal and Estuarine Processes	MM, SI
CP31B	○	Impacts of Microplastics on Marine Organisms and Ecosystem Health III	8:00	10:00	9, UL	Coastal and Estuarine Processes	ME, OC
CP31C	○	Nearshore Processes VI	8:00	10:00	8, UL	Coastal and Estuarine Processes	
CT31A	○	Controls on Trace Metal Biogeochemistry and Physicochemical Speciation in Seawater I	8:00	10:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	CP, OB
ED31A	○	Undergraduate Student Research: A Multidisciplinary Session I	8:00	10:00	11B, UL	Education, Outreach and Policy	
ED31B	●	Engaging Students Globally in Marine Science Research and Conservation I eLightning	8:00	10:00	Poster Hall C-D; eLightning Theater	Education, Outreach and Policy	CP, SI
HE31A	○	Changing Biogeochemical Fluxes, Biodiversity, and Ecological Processes in the Polar Seas, with Special Emphasis on the Coastal Arctic and Sustaining an Integrated Arctic Ocean Observing System II	8:00	10:00	1B, UL	High Latitude Environments	CP, IS, ME
HE31B	○	Variability of High-Latitude Ocean/Sea Ice/Atmosphere Interactions and Associated Convection in a Changing Climate I	8:00	10:00	11A, UL	High Latitude Environments	AI, PC, PL
IS31A	○	Advancing Technologies for the Future of Deep-Ocean Exploration I	8:00	10:00	14B, Mezzanine	Ocean Observatories, Instrumentation and Sensing Technologies	OD, SI
ME31A	○	Using Satellite Remote Sensing and in Situ Data to Evaluate Marine Biodiversity and Ecosystems I	8:00	10:00	7A, UL	Marine Ecology and Biodiversity	IS, OB, SI
MM31A	○	Microbial Genomics to Improve Predictive Understanding of Disturbance in the Global Ocean System I	8:00	10:00	2, UL	Microbiology and Molecular Ecology	CP, ME, OB
OB31A	○	Biological Hot Spots in the Deep Sea: Natural Variability and Adaptation to Changing Oceans I	8:00	10:00	3, UL	Ocean Biology and Biogeochemistry	ME, PC, PI
OB31B	○	Marine Sediments: Fluxes, Fauna, and Forecasting I	8:00	10:00	4, UL	Ocean Biology and Biogeochemistry	ME, MG, PI
OM31A	○	Advances in Ocean Data Assimilation, Forecasting, and Reanalysis III	8:00	10:00	5A, UL	Ocean Modeling	IS, PL, PS
PC31A	○	Near-Term Prediction of the Ocean: Physics, Biogeochemistry, and Ecosystems I	8:00	10:00	1A, UL	Past, Present and Future Climate	OC, OM, PI
PI31A	○	Water Mass Variability in Eastern Boundary Upwelling Systems: Climate Drivers and Ecosystem Impacts I	8:00	10:00	7B, UL	Physical-Biological Interactions	PC, PL
PL31A	○	Tropical Indo-Pacific Ocean Circulation and Climate Variations I	8:00	10:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	AI
PS31A	○	Physical Processes Governing the Distribution and Transport of Dispersed Particles in the Ocean I	8:00	10:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	CP, IS, PL
	Plenary	Ocean Sciences Meeting 2020 Award Plenaries	10:30	12:30	6A-F, UL	Plenaries	

# Wednesday, 19 February | P.M.

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI33A	○	Fluxes and Physical Processes Near the Air-Sea Interface: Observations and Modeling (Cosponsored by the AMS Committee on Air-Sea Interaction) II	2:00	4:00	14A, Mezzanine	Air-Sea Interactions	CP, IS, PS
CP33A	○	Interdisciplinary Approaches for Understanding Coastal Ocean Carbon and Biogeochemical Processes and Budgets I	2:00	4:00	9, UL	Coastal and Estuarine Processes	OB, OC, OM

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CP33B	○	Processes and Management of Altered Estuaries and Deltas in the Era of Anthropocene I	2:00	4:00	10, UL	Coastal and Estuarine Processes	ME, MG
CP33C	○	The Inner Shelf: Impacts of Interconnected Processes I	2:00	4:00	8, UL	Coastal and Estuarine Processes	IS, OM, PS
CT33A	○	Controls on Trace Metal Biogeochemistry and Physicochemical Speciation in Seawater II	2:00	4:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	CP, OB
ED33A	○	Changing the Culture: Preparing a Diverse and Inclusive Ocean Sciences Workforce I	2:00	4:00	14B, Mezzanine	Education, Outreach and Policy	SI
HE33A	○	Variability of High-Latitude Ocean/Sea Ice/Atmosphere Interactions and Associated Convection in a Changing Climate II	2:00	4:00	11A, UL	High Latitude Environments	AI, PC, PL
ME33A	○	From Microbes to Mammals: Using Environmental DNA Sequencing to Advance Marine Biomonitoring and Management I	2:00	4:00	7B, UL	Marine Ecology and Biodiversity	CP
ME33B	○	Using Satellite Remote Sensing and in Situ Data to Evaluate Marine Biodiversity and Ecosystems II	2:00	4:00	7A, UL	Marine Ecology and Biodiversity	IS, OB, SI
OB33A	○	From the Twilight Zone to the Troposphere: Ocean Optics Applications to Biogeochemical Cycling in and Through the Surface Ocean I	2:00	4:00	3, UL	Ocean Biology and Biogeochemistry	AI, IS, PI
OB33B	○	Life, Material Transport, and Element Cycling in the Hadal Realm I	2:00	4:00	2, UL	Ocean Biology and Biogeochemistry	IS, ME, MM
OB33C	●	The Role of Plankton Physiology and Ecology for Ocean Biogeochemistry I eLightning	2:00	4:00	Poster Hall C-D; eLightning Theater	Ocean Biology and Biogeochemistry	ME, PC
OC33A	○	The Evolving Ocean Carbon Sink: Processes and Impacts I	2:00	4:00	11B, UL	Ocean Change: Acidification and Hypoxia	AI, OB, PC
OM33A	○	Advances in Ocean Data Assimilation, Forecasting, and Reanalysis IV	2:00	4:00	5A, UL	Ocean Modeling	IS, PL, PS
OM33B	○	Inland-Coastal Model Coupling Using a Community-Based Approach I	2:00	4:00	4, UL	Ocean Modeling	CP
PC33A	○	Long-Term Changes of the Deep-Ocean Overturning Circulation: Past and Future I	2:00	4:00	1A, UL	Past, Present and Future Climate	HE, OM, PL
PL33A	○	Tropical Indo-Pacific Ocean Circulation and Climate Variations II	2:00	4:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	AI
PS33A	○	Physical Processes Governing the Distribution and Transport of Dispersed Particles in the Ocean II	2:00	4:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	CP, IS, PL
TT33A	●	Biogeochemical and Ecological Impacts of Boundary Currents in the Indian Ocean	2:00	2:30	1B, UL	Tutorial Talks	CP, PI
TT33B	●	The Primary Importance of Secondary Circulation in Estuaries	2:30	3:00	1B, UL	Tutorial Talks	CP, PS
TT33C	●	What Sets the Marine Nitrogen Inventory?	3:00	3:30	1B, UL	Tutorial Talks	NC, OB, PC
TT33D	●	A Movable Feast: The Role of Microbes in the Response to the Deepwater Horizon Oil Spill in the Gulf of Mexico	3:30	4:00	1B, UL	Tutorial Talks	ME, MM, OB
AI34A	●	Fluxes and Physical Processes Near the Air-Sea Interface: Observations and Modeling (Cosponsored by the AMS Committee on Air-Sea Interaction) V Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	CP, IS, PS
AI34B	●	Wave Breaking in Ocean-Atmosphere Exchanges II Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	OM, PS
CP34A	●	Interdisciplinary Approaches for Understanding Coastal Ocean Carbon and Biogeochemical Processes and Budgets V eLightning	4:00	6:00	Poster Hall C-D; eLightning Theater	Coastal and Estuarine Processes	OB, OC, OM
CP34B	●	Human Populations and Influences in the Coastal Zone: Effects on Ocean and Human Health (OHH) V Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	MM, SI
CP34C	●	Nearshore Processes IX Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CP34D	●	Connections Between Coral Reef State, Physical Processes, and Coastlines II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	IS, MG, SI
CP34E	●	The Inner Shelf: Impacts of Interconnected Processes III Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	IS, OM, PS
CP34F	●	The Transformation and Fate of Carbon at the Land-Ocean Interface and Beyond II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	CT, OB
CT34A	●	Biogeochemistry of Dissolved Organic Matter and Dissolved Organic Matter-Microbe Interactions III Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	MM, OB
CT34B	●	Controls on Trace Metal Biogeochemistry and Physicochemical Speciation in Seawater IV Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	CP, OB
ED34A	●	Engaging Students Globally in Marine Science Research and Conservation II Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	CP, SI
ED34B	●	K-12 Youth Sessions: K-12 Youth Ocean Science Research Presentations I Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	
ED34C	●	Undergraduate Marine Science Research: Producing Quality Science Through Independent and Course-Based Research Activities Throughout the Academic Year I Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	
ED34D	●	Undergraduate Student Research: A Multidisciplinary Session III Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	
HE34A	●	Changing Biogeochemical Fluxes, Biodiversity, and Ecological Processes in the Polar Seas, with Special Emphasis on the Coastal Arctic and Sustaining an Integrated Arctic Ocean Observing System III Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	CP, IS, ME, OB, OM, PI
HE34B	●	Changing Biogeochemical Fluxes, Biodiversity, and Ecological Processes in the Polar Seas, with Special Emphasis on the Coastal Arctic and Sustaining an Integrated Arctic Ocean Observing System IV Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	IS, ME, OM
HE34C	●	Ecosystem Structure and Processes in a Changing Arctic IV Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	ME, OB, PI
HE34D	●	Ice-Ocean Interactions and Circulation Around the Antarctic Margins IV Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	OM, PL, PS
HE34E	●	Variability of High-Latitude Ocean/Sea Ice/Atmosphere Interactions and Associated Convection in a Changing Climate III Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	AI, PC, PL
IS34A	●	Advancing Technologies for the Future of Deep-Ocean Exploration II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	OD, SI
IS34B	●	Best Practices for Building a Global Ocean Observing System Responsive to Societal Needs by Linking Basin-Scale Efforts Around the Globe I Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	ED, PS, SI
IS34C	●	Sustained Ocean Observing: From Events to Assessing Long-Term Ecosystem Patterns II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	CP, OB, PL
IS34D	●	The Tropical Pacific Observing System: Meeting the Needs of Researchers and Stakeholders II Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	OB, PL
ME34A	●	Biologging Ecology and Oceanography: Integrative Approaches to Animal-Borne Observations in a Changing Ocean II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	IS, OB
ME34B	●	Exploring and Characterizing Deep and Coastal Ocean Soundscapes II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	OB, PI
ME34C	●	From Microbes to Mammals: Using Environmental DNA Sequencing to Advance Marine Biomonitoring and Management II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	CP
ME34D	●	Using Satellite Remote Sensing and in Situ Data to Evaluate Marine Biodiversity and Ecosystems III Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	IS, OB, SI
ME34E	●	What Are Long-Term Observations Teaching Us About Resilience of Marine Ecosystems? I Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	OM, PC, PI



Session #	Type	Session Title	Start	End	Room	Program	CrossListings
MG34A	●	Cohesive Sediment Transport Processes II Posters	4:00	6:00	Poster Hall C-D	Marine Geology and Sedimentology	CP, PI
MM34A	●	Living on the Edge: Ecotones as Aquatic Transition Zones for Microbial Communities Posters	4:00	6:00	Poster Hall C-D	Microbiology and Molecular Ecology	OB
MM34B	●	Microbial Genomics to Improve Predictive Understanding of Disturbance in the Global Ocean System II Posters	4:00	6:00	Poster Hall C-D	Microbiology and Molecular Ecology	CP, ME, OB
OB34A	●	Biological Hot Spots in the Deep Sea: Natural Variability and Adaptation to Changing Oceans II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, PC, PI
OB34B	●	Complexity, Connectivity, and Change in Southern Ocean Food Webs II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	AI, ME, PI
OB34C	●	From the Twilight Zone to the Troposphere: Ocean Optics Applications to Biogeochemical Cycling in and Through the Surface Ocean III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	AI, IS, PI
OB34D	●	Life, Material Transport, and Element Cycling in the Hadal Realm II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, ME, MM
OB34E	●	Linking the Biology, Geochemistry, and Circulation of the Gulf of Mexico V Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, CP, MM
OB34F	●	Marine Sediments: Fluxes, Fauna, and Forecasting II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, MG, PI
OB34G	●	Structure, Function, and Biogeochemical Role of Plankton Communities in the Nutrient-Limited Open Ocean III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, MM, NC, ME, MM, NC
OB34H	●	The Role of Plankton Physiology and Ecology for Ocean Biogeochemistry II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, PC
OC34A	●	The Evolving Ocean Carbon Sink: Processes and Impacts III Posters	4:00	6:00	Poster Hall C-D	Ocean Change: Acidification and Hypoxia	AI, OB, PC
OD34A	●	Creating Data Synchronicity Across Ocean Microbiome Research I Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	ME, MM, OB
OD34B	●	Data Science for Modern Oceanography: Statistics, Machine Learning, Visualization, and More III Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	OB, OM, PL
OD34C	●	Measurement to Manuscript: Innovative Approaches to Biogeochemical Data Management I Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	AI, OB, SI
OD34D	●	New Information Systems Tools for Implementing Autonomous Multisource, Multipoint Observing Systems II Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	ME, OB, PS
OM34A	●	Advances in Ocean Data Assimilation, Forecasting, and Reanalysis VI Posters	4:00	6:00	Poster Hall C-D	Ocean Modeling	IS, PL, PS
OM34B	●	Inland-Coastal Model Coupling Using a Community-Based Approach II Posters	4:00	6:00	Poster Hall C-D	Ocean Modeling	CP
PC34A	●	Near-Term Prediction of the Ocean: Physics, Biogeochemistry, and Ecosystems II Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	OC, OM, PI
PC34B	●	Long-Term Changes of the Deep-Ocean Overturning Circulation: Past and Future II Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	HE, OM, PL
PC34C	●	Near-Term Prediction of the Ocean: Physics, Biogeochemistry, and Ecosystems III Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	OC, OM, PI
PI34A	●	Water Mass Variability in Eastern Boundary Upwelling Systems: Climate Drivers and Ecosystem Impacts II Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	PC, PL
PL34A	●	Atlantic Ocean Variability in a Changing Climate: Observations, Modeling, and Theories V Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	AI, HE, PC
PL34B	●	Tropical Indo-Pacific Ocean Circulation and Climate Variations III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	AI

# Wednesday, 19 February | P.M.

LEGEND ○ Oral ● Poster ● eLightning ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
PS34A	●	Boundary Currents and Shelf/Deep-Ocean Exchange IV Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	CP, PI, PL
PS34B	●	Interactions Between Internal Waves and Mesoscale/Submesoscale Currents: Physics and Impacts on Ocean Energetics and Mixing III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	OM, PL
PS34C	○	Observing the Ocean Surface Topography at High Resolution: Opportunities and Challenges for the Future SWOT Mission II Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	IS, PI, PL
PS34D	○	Physical Processes Governing the Distribution and Transport of Dispersed Particles in the Ocean III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	CP, IS, PL
PS34E	●	Vertical Transport: Pathways from the Surface to the Interior IV Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	OB, PI, PL
SI34A	●	Ocean Visions: Finding Ocean-Based Solutions to Society's Greatest Global Challenges III Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	ED, IS, PC
SI34B	●	Ocean-Based Solutions to Address Local to Global Human Impacts II Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	ED, OB, PC

# Thursday, 20 February | A.M.

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI41A	○	Fluxes and Physical Processes Near the Air-Sea Interface: Observations and Modeling (Cosponsored by the AMS Committee on Air-Sea Interaction) III	8:00	10:00	14A, Mezzanine	Air-Sea Interactions	CP, IS, PS
CP41A	○	Interdisciplinary Approaches for Understanding Coastal Ocean Carbon and Biogeochemical Processes and Budgets II	8:00	10:00	9, UL	Coastal and Estuarine Processes	OB, OC, OM
CP41B	○	The Inner Shelf: Impacts of Interconnected Processes II	8:00	10:00	8, UL	Coastal and Estuarine Processes	IS, OM, PS
CT41A	○	Controls on Trace Metal Biogeochemistry and Physicochemical Speciation in Seawater III	8:00	10:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	CP, OB
HE41A	○	Ecosystem Structure and Processes in a Changing Arctic I	8:00	10:00	11B, UL	High Latitude Environments	ME, OB, PI
HE41B	○	Mechanisms for Variability, Circulation, and Transformation of Water Masses in the Southern Ocean I	8:00	10:00	1B, UL	High Latitude Environments	OB, PL, PS
IS41A	○	Innovation in in Situ Instrumentation, Sensors, and Observation Networks to Advance High-Resolution Data Collection and Biogeochemical Insight in Marine Ecosystems I	8:00	10:00	11A, UL	Ocean Observatories, Instrumentation and Sensing Technologies	CP, NC, OB
ME41A	○	Advances in the Ecology, Behavior, Physiology, or Conservation of Marine Top Predators I	8:00	10:00	7A, UL	Marine Ecology and Biodiversity	PI
MM41A	○	Coupling Meta'omics and Biochemical Measurements to Understand Trophic Strategies or Physiological Adaptations Among Marine Organisms (Micro to Macro) I	8:00	10:00	2, UL	Microbiology and Molecular Ecology	
OB41A	○	Effect of Warming on Biological, Ecological, and Biogeochemical Ocean Processes: Responses from Organismal to Ecosystem Scales I	8:00	10:00	4, UL	Ocean Biology and Biogeochemistry	CP, ME, PC
OB41B	○	Linking the Biology, Geochemistry, and Circulation of the Gulf of Mexico I	8:00	10:00	3, UL	Ocean Biology and Biogeochemistry	CT, CP, MM
OD41A	○	Artificial Intelligence Systems for Advancing the Study of Aquatic Ecosystems I	8:00	10:00	5A, UL	Ocean Data Management	IS, ME, PI
OM41A	●	Lagrangian Methods for Understanding Ocean Circulation and Tracer Transport I eLightning	8:00	10:00	Poster Hall C-D; eLightning Theater	Ocean Modeling	CT, PL
PC41A	○	Ecosystem Forecasts and Projections I	8:00	10:00	1A, UL	Past, Present and Future Climate	CP, ME, OC

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
PI41A	○	Ecological Fluid Mechanics: Interactions Among Organisms and Their Fluid Environment I	8:00	10:00	7B, UL	Physical-Biological Interactions	ME
PL41A	○	Atlantic Ocean Variability in a Changing Climate: Observations, Modeling, and Theories I	8:00	10:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	AI, HE, PC
PL41B	○	Climate Variability, Ocean Dynamics, and Biogeochemical Cycles in the Indian Ocean I	8:00	10:00	14B, Mezzanine	Physical Oceanography: Mesoscale and Larger	AI, OB, PC
PS41A	○	Interactions Between Internal Waves and Mesoscale/Submesoscale Currents: Physics and Impacts on Ocean Energetics and Mixing I	8:00	10:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	OM, PL
SI41A	○	Ocean Visions: Finding Ocean-Based Solutions to Society's Greatest Global Challenges I	8:00	10:00	10, UL	Social-Ocean Science Interactions and SDGs	ED, IS, PC
AI42A	○	Fluxes and Physical Processes Near the Air-Sea Interface: Observations and Modeling (Cosponsored by the AMS Committee on Air-Sea Interaction) IV	10:30	12:30	14A, Mezzanine	Air-Sea Interactions	CP, IS, PS
CP42A	○	Close-Range Remote Sensing of Nearshore Processes and Coastal Morphology I	10:30	12:30	8, UL	Coastal and Estuarine Processes	IS, PS
CT42A	○	Biogeochemical cycles in oxygen minimum zones: mechanisms, drivers, and change I	10:30	12:30	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	OB
HE42A	○	Ecosystem Structure and Processes in a Changing Arctic II	10:30	12:30	11B, UL	High Latitude Environments	ME, OB, PI
HE42B	○	Mechanisms for Variability, Circulation, and Transformation of Water Masses in the Southern Ocean II	10:30	12:30	1B, UL	High Latitude Environments	OB, PL, PS
IS42A	○	Innovation in in Situ Instrumentation, Sensors, and Observation Networks to Advance High-Resolution Data Collection and Biogeochemical Insight in Marine Ecosystems II	10:30	12:30	11A, UL	Ocean Observatories, Instrumentation and Sensing Technologies	CP, NC, OB
ME42A	○	Advances in the Ecology, Behavior, Physiology, or Conservation of Marine Top Predators II	10:30	12:30	7A, UL	Marine Ecology and Biodiversity	PI
MG42A	○	Cohesive Sediment Transport Processes I	10:30	12:30	9, UL	Marine Geology and Sedimentology	CP, PI
MM42A	○	Coupling Meta'omics and Biochemical Measurements to Understand Trophic Strategies or Physiological Adaptations Among Marine Organisms (Micro to Macro) II	10:30	12:30	2, UL	Microbiology and Molecular Ecology	
OB42A	○	Effect of Warming on Biological, Ecological, and Biogeochemical Ocean Processes: Responses from Organismal to Ecosystem Scales II	10:30	12:30	4, UL	Ocean Biology and Biogeochemistry	CP, ME, PC
OB42B	○	Linking the Biology, Geochemistry, and Circulation of the Gulf of Mexico II	10:30	12:30	3, UL	Ocean Biology and Biogeochemistry	CT, CP, MM
OD42A	○	New Information Systems Tools for Implementing Autonomous Multisource, Multipoint Observing Systems I	10:30	12:30	5A, UL	Ocean Data Management	ME, OB, PS
OM42A	●	Lagrangian Methods for Understanding Ocean Circulation and Tracer Transport II eLightning	10:30	12:30	Poster Hall C-D; eLightning Theater	Ocean Modeling	CT, PL
PC42A	○	High-Resolution Climate Modeling I	10:30	12:30	1A, UL	Past, Present and Future Climate	AI, OM, PL
PI42A	○	Ecological Fluid Mechanics: Interactions Among Organisms and Their Fluid Environment II	10:30	12:30	7B, UL	Physical-Biological Interactions	ME
PL42A	○	Atlantic Ocean Variability in a Changing Climate: Observations, Modeling, and Theories II	10:30	12:30	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	AI, HE, PC
PS42A	○	Interactions Between Internal Waves and Mesoscale/Submesoscale Currents: Physics and Impacts on Ocean Energetics and Mixing II	10:30	12:30	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	OM, PL
PS42B	○	Observing the Ocean Surface Topography at High Resolution: Opportunities and Challenges for the Future SWOT Mission I	10:30	12:30	14B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	IS, PI, PL
SI42A	○	Ocean Visions: Finding Ocean-Based Solutions to Society's Greatest Global Challenges II Panel	10:30	12:30	10, UL	Social-Ocean Science Interactions and SDGs	ED, IS, PC



Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI43A	○	Wave Breaking in Ocean-Atmosphere Exchanges I	2:00	4:00	14A, Mezzanine	Air-Sea Interactions	OM, PS
AI43B	●	Processes Affecting Air-Sea Exchange and the Biogeochemistry of the Upper Ocean IV eLightning	2:00	4:00	Poster Hall C-D; eLightning Theater	Air-Sea Interactions	CT, CP, IS, OB, OM, PI
CP43A	○	Close-Range Remote Sensing of Nearshore Processes and Coastal Morphology II	2:00	4:00	8, UL	Coastal and Estuarine Processes	IS, PS
CP43B	○	Interdisciplinary Approaches for Understanding Coastal Ocean Carbon and Biogeochemical Processes and Budgets III	2:00	4:00	9, UL	Coastal and Estuarine Processes	OB, OC, OM
CT43A	○	Biogeochemistry of DOM and DOM-Microbe Interactions I	2:00	4:00	5B, UL	Chemical Tracers, Organic Matter and Trace Elements	MM, MM, OB
ED43A	○	Changing the Culture: Preparing a Diverse and Inclusive Ocean Sciences Workforce II Panel	2:00	4:00	14B, Mezzanine	Education, Outreach and Policy	SI
HE43A	○	The Changing Thermohaline Structure of the Arctic Ocean: Mechanisms and Impacts I	2:00	4:00	10, UL	High Latitude Environments	OM, PI, PL, AI, PL, PS
IS43A	○	Innovation in in Situ Instrumentation, Sensors, and Observation Networks to Advance High-Resolution Data Collection and Biogeochemical Insight in Marine Ecosystems III	2:00	4:00	11A, UL	Ocean Observatories, Instrumentation and Sensing Technologies	CP, NC, OB
ME43A	○	Advances in the Ecology, Behavior, Physiology, or Conservation of Marine Top Predators III	2:00	4:00	7A, UL	Marine Ecology and Biodiversity	PI
OB43A	○	Complexity, Connectivity, and Change in Southern Ocean Food Webs I	2:00	4:00	4, UL	Ocean Biology and Biogeochemistry	AI, ME, PI
OB43B	○	Linking the Biology, Geochemistry, and Circulation of the Gulf of Mexico III	2:00	4:00	3, UL	Ocean Biology and Biogeochemistry	CT, CP, MM
OB43C	○	Toward BioGeoSCAPES: Exploring Molecular Drivers of Ocean Metabolism and Biogeochemistry I	2:00	4:00	2, UL	Ocean Biology and Biogeochemistry	CT, MM, NC
OC43A	○	The Evolving Ocean Carbon Sink: Processes and Impacts II	2:00	4:00	11B, UL	Ocean Change: Acidification and Hypoxia	AI, OB, PC
OD43A	○	Accelerating Ocean Science: Using Artificial Intelligence and Machine Learning to Gain New Insights I	2:00	4:00	5A, UL	Ocean Data Management	ME
PC43A	○	High-Resolution Climate Modeling II	2:00	4:00	1A, UL	Past, Present and Future Climate	AI, OM, PL
PI43A	○	(Sub)mesoscale Physical/Biogeochemical Interactions I	2:00	4:00	7B, UL	Physical-Biological Interactions	ME, OB, PS
PL43A	○	Atlantic Ocean Variability in a Changing Climate: Observations, Modeling, and Theories III	2:00	4:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	AI, HE, PC
PS43A	○	Boundary Currents and Shelf/Deep-Ocean Exchange I	2:00	4:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	CP, PI, PL
TT43A	●	El Niño-Southern Oscillation in a Changing Climate	2:00	2:30	1B, UL	Tutorial Talks	AI, PC, SI
TT43B	●	Oceanic Carbon Sequestration: The Role of Particle Injection Pumps	2:30	3:00	1B, UL	Tutorial Talks	IS, OB, OM
TT43C	●	An Online Best Practices Guide for Conducting Ocean Global Change Biology Multiple-Driver Experiments	3:00	3:30	1B, UL	Tutorial Talks	ED, OB, OC
TT43D	●	Submarine, Overland, and Aerial Assault: A Tutorial on Acidification and Carbonate System Variability in Coastal Waters	3:30	4:00	1B, UL	Tutorial Talks	CP, OB, OC
AI44A	●	Fluxes and Physical Processes Near the Air-Sea Interface: Observations and Modeling (Cosponsored by the AMS Committee on Air-Sea Interaction) VI Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	CP, IS, PS
AI44B	●	Impacts of Interbasin Interaction on Climate Variability and Extreme Events II Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	OM, PC, PL
AI44C	●	Processes Affecting Air-Sea Exchange and the Biogeochemistry of the Upper Ocean III Posters	4:00	6:00	Poster Hall C-D	Air-Sea Interactions	IS, OM, PI, CT, CP, OB

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
CP44A	●	Application of Remote Sensing to Coastal/Upwelling Regions II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	IS, ME, PS
CP44B	●	Carbon Accumulation and Its Long-Term Stability in Blue Carbon Ecosystems II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	MG, OB
CP44C	●	Close-Range Remote Sensing of Nearshore Processes and Coastal Morphology III Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	IS, PS
CP44D	●	Coastal Processes and Climate Change: Scientific Methods and Tools to Characterize the Impacts of Changing Coastal and Nearshore Processes II Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	MG, PC
CP44E	●	Extreme Sea Levels and Coastal Flood Risk III Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	OM, PC, PS
CP44F	●	Interdisciplinary Approaches for Understanding Coastal Ocean Carbon and Biogeochemical Processes and Budgets IV Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	OB, OC, OM
CP44G	●	The Inner Shelf: Impacts of Interconnected Processes IV Posters	4:00	6:00	Poster Hall C-D	Coastal and Estuarine Processes	IS, OM, PS
CT44A	●	Biogeochemical Cycles in Oxygen Minimum Zones: Mechanisms, Drivers, and Change II Posters	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	OB
CT44B	●	Biogeochemistry of DOM and DOM-Microbe Interactions IV Poster	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	MM, OB
CT44C	●	Controls on Trace Metal Biogeochemistry and Physicochemical Speciation in Seawater V Poster	4:00	6:00	Poster Hall C-D	Chemical Tracers, Organic Matter and Trace Elements	CP, OB
ED44A	●	Changing the Culture: Preparing a Diverse and Inclusive Ocean Sciences Workforce III Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	SI
ED44B	●	Undergraduate Student Research: A Multidisciplinary Session IV Posters	4:00	6:00	Poster Hall C-D	Education, Outreach and Policy	
HE44A	●	The Changing Thermohaline Structure of the Arctic Ocean: Mechanisms and Impacts II Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	AI, OM, PS
HE44B	●	Ecosystem Structure and Processes in a Changing Arctic V Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	ME, OB, PI
HE44C	●	Mechanisms for Variability, Circulation, and Transformation of Water Masses in the Southern Ocean III Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	OB, PL, PS
HE44D	●	Moving Beyond Melt: The Impact of Melting Glaciers, Icebergs, and Sea Ice on Ocean Environments III Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	CT, PI, SI
HE44E	●	Sea Ice Dynamics and Predictability II Posters	4:00	6:00	Poster Hall C-D	High Latitude Environments	AI, OM, PC
IS44A	●	Innovation in in Situ Instrumentation, Sensors, and Observation Networks to Advance High-Resolution Data Collection and Biogeochemical Insight in Marine Ecosystems IV Posters	4:00	6:00	Poster Hall C-D	Ocean Observatories, Instrumentation and Sensing Technologies	CP, NC, OB
ME44A	●	Advances in the Ecology, Behavior, Physiology, or Conservation of Marine Top Predators IV Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	PI
ME44B	●	Underwater Flux Studies and Their Ecological Implications II Posters	4:00	6:00	Poster Hall C-D	Marine Ecology and Biodiversity	CP, IS
MG44A	●	Sediment Delivery, Transport, and Deposition in Marine and Lacustrine Environments IV Posters	4:00	6:00	Poster Hall C-D	Marine Geology and Sedimentology	CP
MM44A	●	Coupling Meta'omics and Biochemical Measurements to Understand Trophic Strategies or Physiological Adaptations Among Marine Organisms (Micro to Macro) III Posters	4:00	6:00	Poster Hall C-D	Microbiology and Molecular Ecology	
OB44A	●	Linking the Biology, Geochemistry, and Circulation of the Gulf of Mexico IV eLightning	4:00	6:00	Poster Hall C-D; eLightning Theater	Ocean Biology and Biogeochemistry	CT, CP, MM
OB44B	●	Beyond Just Discovery in the Ocean's Midwater: Novel and Mechanistic Approaches to Understanding Mesopelagic and Bathypelagic Ecosystems III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, MM

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
OB44C	●	Biogeochemistry in the BGC-Argo Era: From Process Studies to Ecosystem Forecasts II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	IS, OM, PI
OB44D	●	Complexity, Connectivity, and Change in Southern Ocean Food Webs III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	AI, ME, PI
OB44E	●	Effect of Warming on Biological, Ecological, and Biogeochemical Ocean Processes: Responses from Organismal to Ecosystem Scales III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CP, ME, PC
OB44F	●	Linking Microbial, Isotope, Micronutrient, and Other Approaches to Understand Carbon and Nutrient Cycling in the Ocean II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, ME
OB44G	●	Planktonic Recorders: Using Tiny Organisms to Understand Past, Present, and Future Oceans II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	ME, PC
OB44H	●	Seasonal Cycles of Ocean Biogeochemistry and Ecosystems Under a Changing Climate II Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	OC, PC, PL
OB44I	●	Structure, Function, and Biogeochemical Role of Plankton Communities in the Nutrient-Limited Open Ocean IV Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, ME, MM
OB44J	●	Toward BioGeoSCAPES: Exploring Molecular Drivers of Ocean Metabolism and Biogeochemistry III Posters	4:00	6:00	Poster Hall C-D	Ocean Biology and Biogeochemistry	CT, MM, NC
OC44A	●	Chemical and Biological Impacts of Ocean Acidification in the Pacific Ocean III Posters	4:00	6:00	Poster Hall C-D	Ocean Change: Acidification and Hypoxia	CP, OB, OM
OC44B	●	Interdisciplinary Approaches for Understanding the Biological Consequences of Global Ocean Change III Posters	4:00	6:00	Poster Hall C-D	Ocean Change: Acidification and Hypoxia	IS, OB, PC
OD44A	●	Accelerating Ocean Science: Using Artificial Intelligence and Machine Learning to Gain New Insights II Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	ME
OD44B	●	Artificial Intelligence Systems for Advancing the Study of Aquatic Ecosystems II Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	IS, ME, PI
OD44C	●	Data Science for Modern Oceanography: Statistics, Machine Learning, Visualization, and More IV Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	OB, OM, PL
OD44D	●	Integrating, Disseminating, and Visualizing Quality Data at the Regional Scale to Support Resilient Coastal Communities II Posters	4:00	6:00	Poster Hall C-D	Ocean Data Management	ED, IS, SI
OM44A	●	Lagrangian Methods for Understanding Ocean Circulation and Tracer Transport III Posters	4:00	6:00	Poster Hall C-D	Ocean Modeling	CT, PL
PC44A	●	Ecosystem Forecasts and Projections II Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	CP, ME, OC
PC44B	●	High-Resolution Climate Modeling III Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	AI, OM, PL
PC44C	●	Marine Heat Waves and Ocean Biogeochemical Extremes III Posters	4:00	6:00	Poster Hall C-D	Past, Present and Future Climate	OC, PI, AI, ME, PS
PI44A	●	Ecological Fluid Mechanics: Interactions Among Organisms and Their Fluid Environment III Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	ME
PI44B	●	Population Connectivity in Aquatic Ecosystems III Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	ME
PI44C	●	(Sub)mesoscale Physical/Biogeochemical Interactions III Posters	4:00	6:00	Poster Hall C-D	Physical-Biological Interactions	ME, OB, PS
PL44A	●	Climate Variability, Ocean Dynamics, and Biogeochemical Cycles in the Indian Ocean II Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	AI, OB, PC
PL44B	●	Ocean Tides: From Planetary to Turbulent Scales III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	CP, OM, PI
PL44C	●	Turbulent Pathways and Deep-Ocean Ventilation III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Larger	OM, PC, PS



# Thursday, 20 February | P.M.

LEGEND ○ Oral ● Poster ● eLightning ● Tutorial

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
PS44A	●	Defining the New Frontiers of Ocean Mixing Research III Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	CT, OB, OM
PS44B	●	Multiscale Oceanic Processes and Air-Sea Interactions in the Kuroshio-Oyashio Extension Region: Observations and Modeling II Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	AI, IS, OM
PS44C	●	Physical Processes Governing the Distribution and Transport of Dispersed Particles in the Ocean IV Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	CP, IS, PL
PS44D	●	The Roles of the Indonesian Mix-Master, Including Contributions from Adjacent Seas I Posters	4:00	6:00	Poster Hall C-D	Physical Oceanography: Mesoscale and Smaller	
SI44A	●	Ocean Renewable Energy and Synergies with Ocean Technologies III Posters	4:00	6:00	Poster Hall C-D	Social-Ocean Science Interactions and SDGs	CP, IS, OM

# Friday, 21 February | A.M.

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI51A	○	Processes Affecting Air-Sea Exchange and the Biogeochemistry of the Upper Ocean I	8:00	10:00	14A, Mezzanine	Air-Sea Interactions	IS, OM, PI, CT, CP, OB
CP51A	○	Application of Remote Sensing to Coastal/Upwelling Regions I	8:00	10:00	8, UL	Coastal and Estuarine Processes	IS, ME, PS
CP51B	○	Extreme Sea Levels and Coastal Flood Risk I	8:00	10:00	9, UL	Coastal and Estuarine Processes	OM, PC, PS
ED51A	●	Undergraduate Student Research: A Multidisciplinary Session II eLightning	8:00	10:00	Poster Hall C-D; eLightning Theater	Education, Outreach and Policy	
HE51A	○	Moving Beyond Melt: The Impact of Melting Glaciers, Icebergs, and Sea Ice on Ocean Environments I	8:00	10:00	1B, UL	High Latitude Environments	CT, PI, SI
IS51A	○	Sustained Ocean Observing: From Events to Assessing Long-Term Ecosystem Patterns I	8:00	10:00	11A, UL	Ocean Observatories, Instrumentation and Sensing Technologies	CP, OB, PL
ME51A	○	Exploring and Characterizing Deep- and Coastal Ocean Soundscapes I	8:00	10:00	7A, UL	Marine Ecology and Biodiversity	OB, PI
MG51A	○	Sediment Delivery, Transport, and Deposition in Marine and Lacustrine Environments I	8:00	10:00	5B, UL	Marine Geology and Sedimentology	CP
OB51A	○	Beyond Just Discovery in the Ocean's Midwater: Novel and Mechanistic Approaches to Understanding Mesopelagic and Bathypelagic Ecosystems I	8:00	10:00	3, UL	Ocean Biology and Biogeochemistry	ME, MM
OB51B	○	Biogeochemistry in the BGC-Argo Era: From Process Studies to Ecosystem Forecasts I	8:00	10:00	2, UL	Ocean Biology and Biogeochemistry	IS, OM, PI
OB51C	○	Structure, Function, and Biogeochemical Role of Plankton Communities in the Nutrient-Limited Open Ocean I	8:00	10:00	4, UL	Ocean Biology and Biogeochemistry	CT, MM, NC, ME, MM, NC
OC51A	○	Interdisciplinary Approaches for Understanding the Biological Consequences of Global Ocean Change I	8:00	10:00	11B, UL	Ocean Change: Acidification and Hypoxia	IS, OB, PC
OD51A	○	Data Science for Modern Oceanography: Statistics, Machine Learning, Visualization, and More I	8:00	10:00	5A, UL	Ocean Data Management	OB, OM, PL
OD51B	○	Integrating, Disseminating, and Visualizing Quality Data at the Regional Scale to Support Resilient Coastal Communities I Panel	8:00	10:00	14B, Mezzanine	Ocean Data Management	ED, IS, SI
PC51A	○	Marine Heat Waves and Ocean Biogeochemical Extremes I	8:00	10:00	1A, UL	Past, Present and Future Climate	OC, PI, AI, ME, PS
PI51A	○	Population Connectivity in Aquatic Ecosystems I	8:00	10:00	7B, UL	Physical-Biological Interactions	ME

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
PL51A	○	Ocean Tides: From Planetary to Turbulent Scales I	8:00	10:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	CP, OM, PI
PS51A	○	Defining the New Frontiers of Ocean Mixing Research I	8:00	10:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	CT, OB, OM
SI51A	○	Ocean Renewable Energy and Synergies with Ocean Technologies I	8:00	10:00	10, UL	Social-Ocean Science Interactions and SDGs	CP, IS, OM
AI52A	○	Processes Affecting Air-Sea Exchange and the Biogeochemistry of the Upper Ocean II	10:30	12:30	14A, Mezzanine	Air-Sea Interactions	IS, OM, PI, CT, CP, OB
CP52A	○	Extreme Sea Levels and Coastal Flood Risk II	10:30	12:30	9, UL	Coastal and Estuarine Processes	OM, PC, PS
CP52B	○	The Transformation and Fate of Carbon at the Land-Ocean Interface and Beyond I	10:30	12:30	8, UL	Coastal and Estuarine Processes	CT, OB
HE52A	○	Moving Beyond Melt: The Impact of Melting Glaciers, Icebergs, and Sea Ice on Ocean Environments II	10:30	12:30	1B, UL	High Latitude Environments	CT, PI, SI
IS52A	○	The Tropical Pacific Observing System: Meeting the Needs of Researchers and Stakeholders I	10:30	12:30	11A, UL	Ocean Observatories, Instrumentation and Sensing Technologies	OB, PL
ME52A	○	Biologging Ecology and Oceanography: Integrative Approaches to Animal-Borne Observations in a Changing Ocean I	10:30	12:30	7A, UL	Marine Ecology and Biodiversity	IS, OB
MG52A	○	Sediment Delivery, Transport, and Deposition in Marine and Lacustrine Environments II	10:30	12:30	5B, UL	Marine Geology and Sedimentology	CP
MM52A	●	Fungi in the Marine Environment eLightning	10:30	12:30	Poster Hall C-D; eLightning Theater	Microbiology and Molecular Ecology	ME, OB
OB52A	○	Beyond Just Discovery in the Ocean's Midwater: Novel and Mechanistic Approaches to Understanding Mesopelagic and Bathypelagic Ecosystems II	10:30	12:30	3, UL	Ocean Biology and Biogeochemistry	ME, MM
OB52B	○	Linking Microbial, Isotope, Micronutrient, and Other Approaches to Understand Carbon and Nutrient Cycling in the Ocean I	10:30	12:30	2, UL	Ocean Biology and Biogeochemistry	CT, ME
OB52C	○	Structure, Function, and Biogeochemical Role of Plankton Communities in the Nutrient-Limited Open Ocean II	10:30	12:30	4, UL	Ocean Biology and Biogeochemistry	CT, MM, NC, ME, MM, NC
OC52A	○	Interdisciplinary Approaches for Understanding the Biological Consequences of Global Ocean Change II	10:30	12:30	11B, UL	Ocean Change: Acidification and Hypoxia	IS, OB, PC
OD52A	○	Data Science for Modern Oceanography: Statistics, Machine Learning, Visualization, and More II	10:30	12:30	5A, UL	Ocean Data Management	OB, OM, PL
PC52A	○	Marine Heat Waves and Ocean Biogeochemical Extremes II	10:30	12:30	1A, UL	Past, Present and Future Climate	OC, PI, AI, ME, PS
PI52A	○	Population Connectivity in Aquatic Ecosystems II	10:30	12:30	7B, UL	Physical-Biological Interactions	ME
PL52A	○	Turbulent Pathways and Deep-Ocean Ventilation I	10:30	12:30	14B, Mezzanine	Physical Oceanography: Mesoscale and Larger	OM, PC, PS
PS52A	○	Boundary Currents and Shelf/Deep-Ocean Exchange II	10:30	12:30	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	CP, PI, PL
PS52B	○	Multiscale Oceanic Processes and Air-Sea Interactions in the Kuroshio-Oyashio Extension Region: Observations and Modeling I	10:30	12:30	15A, Mezzanine	Physical Oceanography: Mesoscale and Smaller	AI, IS, OM
SI52A	○	Ocean Renewable Energy and Synergies with Ocean Technologies II	10:30	12:30	10, UL	Social-Ocean Science Interactions and SDGs	CP, IS, OM

Session #	Type	Session Title	Start	End	Room	Program	CrossListings
AI53A	○	Impacts of Interbasin Interaction on Climate Variability and Extreme Events I Panel	2:00	4:00	14A, Mezzanine	Air-Sea Interactions	OM, PC, PL
CP53A	○	Carbon Accumulation and Its Long-Term Stability in Blue Carbon Ecosystems I	2:00	4:00	8, UL	Coastal and Estuarine Processes	MG, OB
CP53B	○	Coastal Processes and Climate Change: Scientific Methods and Tools to Characterize the Impacts of Changing Coastal and Nearshore Processes I	2:00	4:00	9, UL	Coastal and Estuarine Processes	MG, PC
CP53C	○	Connections Between Coral Reef State, Physical Processes, and Coastlines I	2:00	4:00	10, UL	Coastal and Estuarine Processes	IS, MG, SI
CT53A	○	Biogeochemistry of DOM and DOM-Microbe Interactions II	2:00	4:00	5A, UL	Chemical Tracers, Organic Matter and Trace Elements	MM, MM, OB
HE53A	○	Sea Ice Dynamics and Predictability I	2:00	4:00	1A, UL	High Latitude Environments	AI, OM, PC
ME53A	○	Underwater Flux Studies and Their Ecological Implications I	2:00	4:00	7A, UL	Marine Ecology and Biodiversity	CP, IS
MG53A	○	Sediment Delivery, Transport, and Deposition in Marine and Lacustrine Environments III	2:00	4:00	5B, UL	Marine Geology and Sedimentology	CP
OB53A	○	Planktonic Recorders: Using Tiny Organisms to Understand Past, Present, and Future Oceans I	2:00	4:00	4, UL	Ocean Biology and Biogeochemistry	ME, OM, PC
OB53B	○	Seasonal Cycles of Ocean Biogeochemistry and Ecosystems Under a Changing Climate I	2:00	4:00	3, UL	Ocean Biology and Biogeochemistry	OC, PC, PL
OB53C	○	Toward BioGeoSCAPES: Exploring Molecular Drivers of Ocean Metabolism and Biogeochemistry II	2:00	4:00	2, UL	Ocean Biology and Biogeochemistry	CT, MM, NC
OC53A	○	Chemical and Biological Impacts of Ocean Acidification in the Pacific Ocean I	2:00	4:00	11B, UL	Ocean Change: Acidification and Hypoxia	CP, OB, OM
PI53A	○	(Sub)mesoscale Physical/Biogeochemical Interactions II	2:00	4:00	7B, UL	Physical-Biological Interactions	ME, OB, PS
PL53A	○	Ocean Tides: From Planetary to Turbulent Scales II	2:00	4:00	15A, Mezzanine	Physical Oceanography: Mesoscale and Larger	CP, OM, PI
PL53B	○	Turbulent Pathways and Deep-Ocean Ventilation II	2:00	4:00	14B, Mezzanine	Physical Oceanography: Mesoscale and Larger	OM, PC, PS
PS53A	○	Defining the New Frontiers of Ocean Mixing Research II	2:00	4:00	15B, Mezzanine	Physical Oceanography: Mesoscale and Smaller	CT, OB, OM
TT53A	●	Plankton Measurements Now	2:00	2:30	1B, UL	Tutorial Talks	IS, ME, OB
TT53B	●	Past, Present, and Future Satellite Radar Altimeters	2:30	3:00	1B, UL	Tutorial Talks	IS, PL, PS
TT53C	●	Establishing Active Fluorescence as a Primary Productivity Metric for the World's Coasts and Oceans	3:00	3:30	1B, UL	Tutorial Talks	OB, OD, PI
TT53D	●	Turbulence Microstructure Measurements in the 21st Century	3:30	4:00	1B, UL	Tutorial Talks	IS, PS
		Ocean Sciences Meeting Closing Plenary: Margaret Leinen	4:00	5:00	6A-F, UL	Plenaries	



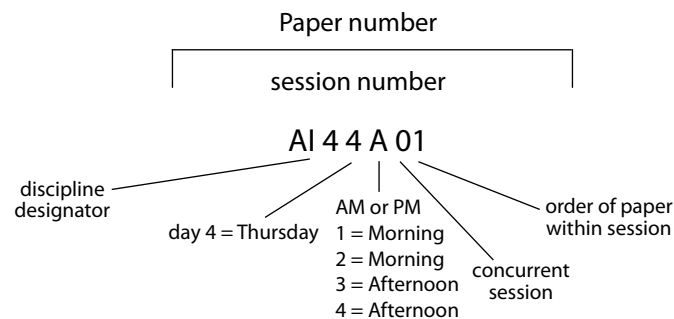
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Presenting authors' names are followed by the paper numbers of which they are presenting.

To find a paper in this meeting program:

- Locate the name of the presenting author in the index.
- Refer to the paper numbers following the presenting author's name.
- The paper number includes the session and paper information.
- The last two digits (oral) or four digits (poster) of a paper number provide the sequence within a session.
- After locating the session number, find the session in the daily program schedule.

Example: Paper AI4A-01 is scheduled on Thursday afternoon, concurrent session A, the first presentation.



Abstracts can be found on the Online Schedule until after the completion of the meeting. The link is posted at [oceans2020.org](http://oceans2020.org).

Abstracts must be cited as: Author(s), 2020, Title, Abstract XXXXX-XXXX presented at 2020 Ocean Sciences Meeting, AGU, San Diego, CA, 16-20 Feb.

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 Fourqurean J W (CP53A-05)  
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 Freeman N M (IS34C-3371)  
 Freiburger R (CT24B-0899)  
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