



Media Tip Sheet

Potentially newsworthy research being presented at the Ocean Sciences Meeting 2020, selected by the OSM press office.

Daily Recommendations

Presentation	Time	Room
Monday, February 17, 2020		
<u>Changing phenology and larval transport drive benthic species' wrong-way migrations</u>		
PI11A-01	8:00 AM – 8:12 AM	7B, UL
<u>Timing is Everything: Drivers of Interannual Variability in Blue Whale Migration</u>		
PC11A-03	8:30 AM – 8:45 AM	1A, UL
<u>Preparing for coastal flooding: A warning system for Imperial Beach, CA</u>		
SI11A-06	9:15 AM – 9:30 AM	11A, UL
<u>The Geography of Climate Challenges and Solutions for National Food Systems</u>		
SI12A-01	10:30 AM – 10:43 AM	10, UL
<u>A call to reframe the sustainable seafood narrative to maximize contributions to food systems</u>		
SI12A-02	10:43 AM – 10:56 AM	10, UL
<u>“The Blob” in 3D: portable immersive 3D visualization of the warm anomaly</u>		
ED12A-09	12:30 PM – 12:45 PM	Poster Hall C-D; eLightning Theater
<u>The brighter side of climate change: How local oceanography amplified a lobster boom in the Gulf of Maine</u>		
PC13A-05	3:00 PM – 3:15 PM	1A, UL
<u>Meiofauna life on loggerhead and hawksbill sea turtles</u>		
OB13A-07	3:12 PM – 3:24 PM	4, UL
<u>Ocean Waves, Sea Ice, and Coastal Protection Along Alaska’s North Slope</u>		
CP13A-08	3:45 PM – 4:00 PM	8, UL
<u>Quantifying Ecosystem Structure and Services Provided by Tropical Seaweed Farms</u>		
ME14C-0007	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Oxygen Flux Limitation drives Heat Wave Vulnerability of a Coastal Keystone Predator</u>		
OB14B-0361	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Spatial Planning of Marine Aquaculture Under Climate Decadal Variability: A Case Study for Mussel Farms in Southern California</u>		
SI14B-1536	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Remote Sensing Analysis and Classification of Stormwater and Sewage Runoff in the Tijuana River</u>		
CP14D-1113	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Following the Trail of Fukushima Tracers: Introducing Part II – Seven Years of North Pacific Mode Water Evolution</u>		
CT14C-0872	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Identification of rockfish species in Monterey, CA Fishmarkets using DNA barcoding</u>		
SI14B-1543	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Ecolabeled seafood has a higher substitution rate at the end of the supply chain</u>		
SI14B-1542	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Extreme marine nematodes towards the comprehension of origin and evolution of life in our changing Planet</u>		
OB14A-0351	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Aquatic Ecosystems are the Largest Source of Methane on Earth</u>		
CP14A-1030	4:00 PM – 6:00 PM	Poster Hall C-D

Presentation	Time	Room
<u>Recent faulting in south San Diego Bay: Potential rupture pathways for future earthquakes on the southern Newport-Inglewood-Rose Canyon Fault system</u>		
MG14A-2177	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Aquaculture and Blue Economy Initiatives at the Port of San Diego</u>		
SI14B-1538	4:00 PM – 6:00 PM	Poster Hall C-D
<u>The Epigenetic Landscape of Transgenerational Acclimation to Climate Change</u>		
ME14E-0082	4:00 PM – 6:00 PM	Poster Hall C-D
<u>World ocean thermocline weakening and climate impact</u>		
AI14A-2246	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Addressing seafood traceability at the city-scale: stakeholder engagement for co-designing a solution for Los Angeles</u>		
SI14B-1540	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Are Australian Commonwealth marine protected areas climate ready?</u>		
ME14A-09	6:00 PM – 6:15 PM	Poster Hall C-D; eLightning Theater
Tuesday, February 18, 2020		
<u>Vulnerability of Eastern Thwaites Ice Shelf, West Antarctica to Warm Ocean Water: Insights from First AUV Exploration of Sub-Ice-Shelf Environment</u>		
HE21B-01	8:00 AM – 8:15 AM	2, UL
<u>Continental and sea ice melting signature in Arctic sea surface salinity</u>		
PL21A-02	8:15 AM – 8:30 AM	15A, Mezzanine
<u>The Effects of Climate Change and Urbanization on the Virulence and Antibiotic Resistance of Vibrio Bacteria Affecting Seafood Safety and Contact Recreation in the Coastal Zone</u>		
CP21A-03	8:30 AM – 8:45 AM	10, UL
<u>The complicated, no good, multifaceted and confusing reasons for Microcystis blooms.</u>		
CP21A-05	9:00 AM – 9:15 AM	10, UL
<u>The ocean's ultimate trashcan: Hadal trenches as major depositories for plastic pollution</u>		
CP21B-11	9:40 AM – 9:50 AM	9, UL
<u>Using Virtual Reality in Sea Level Rise Planning and Community Engagement in Santa Cruz, CA</u>		
ED23A-05	3:00 PM – 3:15 PM	11B, UL
<u>Determining the Photochemical Fate of Organic UV-Filters Commonly Found in Sunscreen</u>		
CT24C-0921	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Winter Distribution of Meltwater in Front of Pine Island Ice Shelf Revealed by Seals</u>		
HE24B-1977	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Oceanography Beyond Earth: A Frontier in Ocean Sciences</u>		
MG24A-2194	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Through the Looking Glass: Understanding Planetary Oceans through their Ice Shells</u>		
MG24A-2196	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Going the Last Kilometer: Overcoming Challenges to Discovering Life-Supporting Gradients on Ocean Worlds</u>		
MG24A-2191	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Wind-driven ocean circulation changes cause the largest freshening event for 120 years in the eastern subpolar North Atlantic</u>		
PL24B-2659	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Investigating the Presence and Trophic Transfer of Microplastics in Ex- and In-Situ North American Otters Through Diet and Scat Analysis</u>		
CP24C-1150	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Extreme colds provoke the synthesis of DNA protection proteins that have unique structures that grant stability</u>		
MG24A-2187	4:00 PM – 6:00 PM	Poster Hall C-D

Presentation	Time	Room
<u>Emergence of Life in Ocean World Hydrothermal Systems</u>		
MG24A-2186	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Extremophilic Microbes from Serpentinite Mud Volcanoes</u>		
MG24A-2188	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Consistent transport of terrestrial microplastics to the ocean through atmosphere</u>		
CP24C-1154	4:00 PM – 6:00 PM	Poster Hall C-D
<u>What's Associated with Deep-sea Corals and Sponges?</u>		
IS24C-3325	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Ocean Circulations in the Outer Solar System</u>		
MG24A-2193	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Taking a planetary science-inspired look at Earth's sea ice-ocean interface – a hot spot for interactions of life, chemical and physical exchange.</u>		
MG24A-2195	4:00 PM – 6:00 PM	Poster Hall C-D
Wednesday, February 19, 2020		
<u>Floating Debris Accumulation in the North Pacific "Garbage Patch", Studied with a Suite of Lagrangian Instruments</u>		
PS31A-01	8:00 AM – 8:15 AM	15B, Mezzanine
<u>Synaphobranchid Swarms at Seamount Summits: Biological Hotspots in the Abyssal Ocean</u>		
OB31A-01	8:00 AM – 8:15 AM	3, UL
<u>When DNA Fails Us: The Morphological Investigation of Marine Mammal Hair</u>		
ED31A-02	8:15 AM – 8:30 AM	11B, UL
<u>Was the 2015 Subpolar North Atlantic Cold Blob Predictable?</u>		
PC31A-02	8:15 AM – 8:30 AM	1A, UL
<u>How rain and wind regulate the seasonal heartbeat of the Indonesian Throughflow</u>		
PL31A-05	9:00 AM – 9:15 AM	15A, Mezzanine
<u>Plastics and microfibers in the environment</u>		
CP31B-07	9:00 AM – 9:10 AM	9, UL
<u>Use of a novel ovary-on-a-chip to screen for female reproductive toxicity of microcystins</u>		
CP31A-05	9:00 AM – 9:15 AM	10, UL
<u>Living with the Toxic Legacy of DDT, Floods Accelerating the Pathway from Catchments to the Coast</u>		
OB31B-07	9:30 AM – 9:45 AM	4, UL
<u>Oil spill scenarios in the western gulf of Mexico</u>		
PS33A-03	2:30 PM – 2:45 PM	15B, Mezzanine
<u>Modelling the accumulation and transport of microplastics by Arctic sea ice</u>		
PS33A-08	3:45 PM – 4:00 PM	15B, Mezzanine
<u>Hurricanes enhance the ocean's biological carbon pump</u>		
OC34A-1459	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Predicting Shape of Dives of Southern Elephant Seals Using Regression Tree Models</u>		
OD34B-3455	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Alleviating hypoxia through induced downwelling</u>		
SI34B-1637	4:00 PM – 6:00 PM	Poster Hall C-D
<u>What is needed to close the modelled global budget of ocean plastic debris?</u>		
PS34D-2986	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Effect of Artificial Upwelling on Preventing Coral Bleaching During Times of Thermal Stress: Strategies for Survival in a Warming Ocean</u>		
SI34B-1642	4:00 PM – 6:00 PM	Poster Hall C-D

Presentation	Time	Room
<u>The Water Is Coming: Mitigating The Rising Sea Levels Through Artificial Installations and Artificial Islands</u>		
SI34A-1631	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Rust in the Abyss: Investigating the Effects of High Hydrostatic Pressure on Microbially Influenced Corrosion.</u>		
OB34D-0603	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Ocean-based mitigation of climate change warrants experimental evaluation because many “natural” terrestrial mitigation options are risky and may prove temporary</u>		
SI34A-1625	4:00 PM – 6:00 PM	Poster Hall C-D
<u>BathyBot – a Deep-sea Crawler to See the Unseen in the NW Mediterranean Sea</u>		
IS34A-3344	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Exploring the impact of historic shipwrecks on microbial biogeography and sediment geochemistry in the deep Gulf of Mexico.</u>		
OB34A-0557	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Wildfire Ash Promotes Growth of Santa Barbara Channel Phytoplankton Communities Under Low Nutrient Conditions</u>		
CP34F-1303	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Forecasting the ecological legacy of aging offshore oil and gas platforms</u>		
SI34A-1618	4:00 PM – 6:00 PM	Poster Hall C-D
Thursday, February 20, 2020		
<u>The Green New Deal: Algal Solutions to Reversing Climate Change and Ending World Hunger</u>		
SI41A-01	8:00 AM – 8:15 AM	10, UL
<u>Antarctic Biological Invasions Driven by Stokes Drift and Mesoscale Variability</u>		
OM41A-03	8:30 AM – 8:45 AM	Poster Hall C-D; eLightning Theater
<u>Blue Hole Biogeochemistry in the Greater Gulf of Mexico Context</u>		
OB41B-05	9:00 AM – 9:15 AM	3, UL
<u>A Major Shift in Southern Ocean Climate System</u>		
HE41B-08	9:45 AM – 10:00 AM	1B, UL
<u>When Carnivores Clash: Evidence of Competition and Prey-shifting by Brown Bears During a Period of Sea Otter Recovery</u>		
ME42A-03	11:00 AM – 11:15 AM	7A, UL
<u>A birdseye view: how can we capture potential nursery areas with UAV technology? – San Cristobal, Galapagos</u>		
ME42A-06	11:45 AM – 12:00 PM	7A, UL
<u>Climate and fishing drive regime shifts in consumer-mediated nutrient cycling in kelp forests</u>		
OB42A-08	12:15 PM – 12:30 PM	4, UL
<u>The Joint Exploration of the Twilight Zone Ocean Network (JETZON)</u>		
TH43C	12:45 PM – 1:45 PM	5A, UL
<u>Changes in ocean water masses reveal accumulation of the climate's excess heat in the Atlantic Ocean</u>		
PL43A-02	2:15 PM – 2:30 PM	15A, Mezzanine
<u>OrcaCNN: Detecting and classifying killer whales from passive acoustic data</u>		
OD43A-04	2:45 PM – 3:00 PM	5A, UL
<u>Impacts of environmental variability on the Kerguelen Plateau marine ecosystem</u>		
OB43A-07	3:30 PM – 3:45 PM	4, UL
<u>Effects of parental heat stress on the larval thermal performance of Porites astreoides, a brooding coral</u>		
OB44E-0727	4:00 PM – 6:00 PM	Poster Hall C-D
<u>The Temperature Inside the Nests of the Diamondback Terrapin, Malaclemys terrapin, and Its Relationship with the Air Temperature of the Nesting Site.</u>		
OB44E-0733	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Swimming Kinematics In “Sea Butterflies” - Using Image Tracking Software To Characterize The 3D Swimming Of Pteropods</u>		
PI44A-2534	4:00 PM – 6:00 PM	Poster Hall C-D

Presentation	Time	Room
<u>Greening the Grey: Integrating Oysters to Enhance Grey Infrastructure Effectiveness Against Sea Level Rise</u>		
CP44D-1378	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Using Chemical Tracers to Understand Where Fish Were Born</u>		
PI44B-2556	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Airport Runoff and Heavy Metal Accumulation in Sediment, Mussels and Oysters in San Diego Bay, CA</u>		
ED44B-3716	4:00 PM – 6:00 PM	Poster Hall C-D
<u>The strengthening of Amazonian precipitation during the wet season driven by tropical sea surface temperature forcing</u>		
AI44B-2432	4:00 PM – 6:00 PM	Poster Hall C-D
<u>A Review of the Impacts of Climate Change and Fishing on Penguins in the Western Antarctic Peninsula and Scotia Sea Region</u>		
OB44D-0710	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Life adrift: coastal species transport on ocean plastics</u>		
OC44B-1516	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Revisiting Accumulated "Discoveries": Museum Deep-sea Fish Specimens Can Provide New Insights into Their Parasites</u>		
OB44B-0678	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Tracing Change in Marine Ecosystem Using Compound Specific Stable Isotope Analysis of Amino Acids Archived in Baleen Whale Earplug</u>		
OB44E-0734	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Deep Breathing: In Situ Respiration Rates of Bathypelagic Animals</u>		
OB44B-0663	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Running with Hooligans: population structure, biology, and cultural importance of the Nooksack River Longfin Smelt (<i>Spirinchus thaleichthys</i>)</u>		
PI44B-2551	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Recent hemispheric asymmetry in global ocean warming induced by climate change and internal variability</u>		
AI44B-2426	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Foraging Behavior and Movement Patterns of the Leopard Seal in the Antarctic Peninsula</u>		
OB44D-0711	4:00 PM – 6:00 PM	Poster Hall C-D
<u>The Blob and Queen Charlotte: Predicting Ocean Properties in an Upwelling System during Anomalous Conditions</u>		
PC44C-1901	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Lowered Cameras Reveal Hidden Seasonal, Diel, and Swarm Density Shifts in Antarctic Krill Behaviors Throughout the Water Column</u>		
OB44D-0706	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Harmful Algae in the Canadian Arctic: The Phantom Menace?</u>		
HE44B-2092	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Variable drivers of ocean warming along the coast of the Gulf of Alaska evidenced and tracked by a persistent range expansion of the market squid, <i>Doryteuthis opalescens</i></u>		
OB44E-0732	4:00 PM – 6:00 PM	Poster Hall C-D
<u>What Causes Heatwaves in the Ocean?</u>		
PC44C-1905	4:00 PM – 6:00 PM	Poster Hall C-D
<u>A Large, Sustained El Niño-Like Response To Nuclear Conflict</u>		
AI44B-2416	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Large baleen and small toothed whales face greatest energetic consequences from sonar disturbance</u>		
ME44A-0227	4:00 PM – 6:00 PM	Poster Hall C-D
<u>Ongoing Beach Nourishments in San Diego County, Ca.</u>		
CP44D-1373	4:00 PM – 6:00 PM	Poster Hall C-D
<u>A new ocean state after nuclear winter</u>		
PC44C-1882	4:00 PM – 6:00 PM	Poster Hall C-D

Presentation	Time	Room
<u>Sounding out life in the deep: acoustic data from ships of opportunity</u>		
OB44B-0667	4:00 PM – 6:00 PM	Poster Hall C-D
Friday, February 21, 2020		
<u>How useful is tidal-stream energy for electricity supply?</u>		
SI51A-01	8:00 AM – 8:15 AM	10, UL
<u>Extreme Marine Heatwaves –common characteristics, drivers and impacts</u>		
PC51A-02	8:15 AM – 8:30 AM	1A, UL
<u>Air-sea CO2flux measurements on the first autonomous circumnavigation of Antarctica</u>		
AI51A-02	8:15 AM – 8:30 AM	14A, Mezzanine
<u>4.5 billion years of Earth-Moon evolution from high-level ocean tide and orbital dynamics models: First results</u>		
PL51A-02	8:15 AM – 8:30 AM	15A, Mezzanine
<u>Recent Extremes in North Pacific Climate and the 2019 Alaskan Heatwave</u>		
PC51A-03	8:30 AM – 8:45 AM	1A, UL
<u>Taking a closer look into the deep scattering layer - using broadband acoustics to identify mesopelagic organisms in situ</u>		
OB51A-04	8:45 AM – 9:00 AM	3, UL
<u>The 2019 Reappearance of the Northeast Pacific Marine Heatwave</u>		
PC51A-04	8:45 AM – 9:00 AM	1A, UL
<u>Quantifying calving flux from underwater noise of iceberg impact</u>		
HE51A-05	9:00 AM – 9:15 AM	1B, UL
<u>They Came from the Pacific! Ecological Connectivity between the Pacific and Atlantic Oceans via a Changing Arctic</u>		
PI51A-06	9:15 AM – 9:30 AM	7B, UL
<u>Vertical migration’s why and when revisited with new technology: Tracking individual timing to understand the adaptive significance of vertical migration</u>		
OB51A-07	9:30 AM – 9:45 AM	3, UL
<u>Predation, fear, and dynamic vertical structure in the mesopelagic</u>		
OB51A-08	9:45 AM – 10:00 AM	3, UL
<u>Using a Long-term Landsat Timeseries to Understand the Effect of Marine Heatwaves on Unprecedented Declines in Northern California Bull Kelp</u>		
PC51A-08	9:45 AM – 10:00 AM	1A, UL
<u>Towards Estimating the Biogeochemical Footprint of an Offshore Windfarm</u>		
SI52A-03	11:00 AM – 11:15 AM	10, UL
<u>Resistance of a reef-building coral to hypoxia</u>		
OC52A-03	11:00 AM – 11:15 AM	11B, UL
<u>On the Changing Pattern of Seasonal Flooding Along the U.S. East Coast</u>		
CP52A-04	11:15 AM – 11:30 AM	9, UL
<u>Common cause for severe droughts in South America and marine heatwaves in the South Atlantic</u>		
PC52A-04	11:15 AM – 11:30 AM	1A, UL
<u>Predicting storm wave runup at Imperial Beach, California</u>		
CP52A-06	11:45 AM – 12:00 PM	9, UL
<u>Pteropods make thinner shells along a natural ocean acidification gradient</u>		
OC53A-07	3:30 PM – 3:45 PM	11B, UL