



# PMEL Poster Session

## Climate-Weather Theme

<b>Title</b>	<b>Presenter(s)</b>	<b>PMEL Group</b>
<b>Autonomous Profilers in the Arctic</b>	Kevin Wood	Arctic
<b>Old Weather Arctic: Our Weather's Past, the Climate's Future</b>	Kevin Wood	Arctic
<b>How Different is the Arctic Sea-Ice Condition Revealed by CMIP6 Models</b>	Muyin Wang	Arctic
<b>Constraining change and variability in surface ocean CO<sub>2</sub>: A global network of autonomous time series</b>	Adrienne Sutton	Carbon
<b>Pacific Decadal Anthropogenic Carbon Storage</b>	Brendan Carter	Carbon
<b>New Preformed Properties for Marine Biogeochemistry</b>	Brendan Carter	Carbon
<b>Anthropogenic Carbon Concentration Along the West Coast of North America</b>	Richard Feely, Brendan Carter, Simone Alin and Dana Greeley	Carbon
<b>Recommendations for capturing subsurface carbonate system variability in U.S. coastal and coral ecosystems</b>	Sophie Chu	Carbon
<b>An outgoing-longwave-radiation perspective on El Nino and La Nina seasonal weather anomalies</b>	Andy Chiodi	Climate Weather Interface
<b>Diurnal Cycle Metrics for Validating NWP and Climate Models and Understanding Air-Sea Interaction in the Tropical Pacific</b>	Dongxiao Zhang	Climate Weather Interface
<b>Saildrone: Unoccupied Surface Vehicle for Surface Current and Air-Sea Flux Observations</b>	Dongxiao Zhang	Climate Weather Interface
<b>Arctic Air-Sea Energy Fluxes during Rapid Sea-Ice Reduction</b>	Chidong Zhang, Dongxiao Zhang, and others	Climate-Weather Interface
<b>Detection of the Equatorial Roll in the Mixed Layer of the Indian Ocean</b>	Michael J McPhaden	Global Tropical Moored Buoy Array

<b>Research Moored Array for African-Asian-Australia Monsoon Analysis and Prediction</b>	Michael J McPhaden	Global Tropical Moored Buoy Array
<b>Deep Argo Quantifies Bottom Water Warming Rates in the Southwest Pacific Ocean</b>	Greg Johnson	Large Scale Ocean Physics
<b>Upper Ocean Warming 1993–2018: Regional Trends and Variability</b>	John Lyman	Large Scale Ocean Physics
<b>Air-Sea Fluxes with a Focus on Heat and Momentum</b>	Meghan Cronin	Ocean Climate Stations
<b>The Diurnal Cycle: Air-Sea Interaction's Clock and New Challenges Observed by Saildrone</b>	Meghan Cronin	Ocean Climate Stations

## Ocean and Coastal Processes Theme

<b>Title</b>	<b>Presenter(s)</b>	<b>PMEL Group</b>
<b>Diversity of the Mariana biogeographic region with a closer look at <i>Alviniconcha hessleri</i>, the original "hairy snail"</b>	Dave Butterfield	Earth Ocean Interactions
<b>The Effects of the Solid Earth on Ocean Biogeochemistry</b>	Joseph Resing	Earth Ocean Interactions
<b>Estimates of chemical fluxes from Daikoku Seamount - a shallow, erupting, submarine volcano on the Mariana Arc</b>	Nathaniel Buck	Earth Ocean Interactions
<b>High resolution mapping of hydrothermal plumes in the Mariana back-arc relate seafloor sources to above-bottom plumes</b>	Sharon Walker	Earth Ocean Interactions
<b>The PMEL MAPR Program</b>	Sharon Walker	Earth Ocean Interactions
<b>NOAA Earth Ocean Interactions (EOI) efforts at mapping the seafloor and, more recently, the water column, in multiple ocean environments including spreading centers, hot spots, arcs, back arcs, continental margins and oceanic trenches</b>	Jeff Beason	Earth Ocean Interactions
<b>Chemical distribution of the Cascadia Margin methane seep bubbles</b>	Tamara Baumberger	Earth Ocean Interactions
<b>Earth Ocean Interactions Program</b>	Tamara Baumberger	Earth Ocean Interactions
<b>Equatorial transport of nitrous oxide from the eastern tropical Pacific Ocean</b>	Bonnie Chang	Ocean Tracer
<b>Temperature as Measured by Deep Ocean Assessment and Reporting of Tsunami Technology</b>	Marie Eble	Tsunami
<b>Propagation of Tsunami-Induced Infra-Gravity Waves</b>	Yong Wei	Tsunami



<b>Exploring the cause of catastrophic Caribbean Inundation in 1200-1400 C.E. using numerical models compared with geological evidence</b>	Yong Wei	Tsunami
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## Marine Ecosystems Theme

<b>Title</b>	<b>Presenter(s)</b>	<b>PMEL Group</b>
<b>Combining near-field acoustic records and genetic identity of an individual eastern North Pacific blue whale off the central Oregon coast</b>	Angela Sremba	Acoustics
<b>Global sound levels and sources from 25 years of PMEL hydrophone deployments</b>	Bob Dziak	Acoustics
<b>The 2016 Nansen Ice-shelf collapse event: Hydroacoustic, meteorologic and seismic observations.</b>	Bob Dziak	Acoustics
<b>Acoustic glider surveys for cetaceans off Southern California and in the Gulf of Mexico</b>	Dave Mellinger	Acoustics
<b>The competing roles of vessels, wind and waves in Oregon's shallow water coastal soundscape</b>	Joe Haxel	Acoustics
<b>Passive acoustic monitoring reveals seasonal trends and primary contributors to the low-frequency ambient soundscape of the Cordell Bank National Marine Sanctuary</b>	Samara Haver	Acoustics
<b>Monitoring Long-Term Trends and Sources of Noise in U.S. Waters</b>	Samara Haver	Acoustics
<b>Underwater winch for polar region studies</b>	Haru Matsumoto	Acoustics
<b>Estimates of change since the pre-industrial in the frequency, duration, and intensity of acidified conditions along the Olympic Coast</b>	Simone Alin	Carbon
<b>Successes and challenges of interdisciplinary ocean acidification research in Alaska</b>	Jessica Cross	Innovative Technologies for Arctic Exploration (ITAE)/Ocean Acidification
<b>Winter Replenishment of Nitrate in the Chukchi Seas</b>	Calvin Mordy	Ecosystems & Fisheries-Oceanography Coordinated Investigations
<b>Regional models capture critical spatial patterns of marine ecosystem change</b>	Darren J. Pilcher	Ecosystems & Fisheries-Oceanography Coordinated Investigations

<b>Simulated impact of glacial runoff on CO2 uptake and aragonite saturation state in the coastal Gulf of Alaska</b>	Darren J. Pilcher	Ecosystems & Fisheries- Oceanography Coordinated Investigations
<b>Ice, Keels and Changing Seasons in the Chukchi Sea near Icy Cape, Alaska</b>	Peggy Sullivan	Ecosystems & Fisheries- Oceanography Coordinated Investigations
<b>Improved Biophysical Observations from a Profiling Moored Observing Platform in the SE Bering Sea</b>	Shaun W Bell, Phyllis Stabeno	Ecosystems & Fisheries- Oceanography Coordinated Investigations
<b>Downscaling global climate projections to the Bering Sea: a rapid hybrid dynamical statistical method</b>	Albert Hermann	Ecosystems & Fisheries- Oceanography Coordinated Investigations
<b>Intermittency of the Atlantic Meridional Overturning Circulation multi-decadal variability: quantification and mechanisms</b>	Wei Cheng	Ecosystems & Fisheries- Oceanography Coordinated Investigations
<b>Targeted Metabarcoding to Assess the Possible Effects of Ocean Acidification and Hypoxia in Olympic Coast National Marine Sanctuary</b>	Chris Paight	Genetics and Genomics
<b>Metagenomic Assays to Assess Marine Community Species Identities, Diversity, Representation, and Population Patterns from Salish Sea Zooplankton</b>	Elizabeth Silkas, Carol Stepien	Genetics & Genomics
<b>The Importance of Environmental Exposure History in Forecasting Dungeness Crab Megalopae Occurrence Using J-SCOPE, a High-Resolution Model for the US Pacific Northwest</b>	Emily Norton	Genetics & Genomics

## Research Innovation Theme

<b>Title</b>	<b>Presenter(s)</b>	<b>PMEL Group</b>
<b>Saildrone Science: Three Years of Arctic Missions</b>	Edward (Ned) Cokelet	Innovative Technologies for Arctic Exploration (ITAE)
<b>Innovative Technologies to Advance Ocean Observation</b>	Heather Tabisola	Innovative Technologies for Arctic Exploration (ITAE)



<b>A Common Platform for Oceanic Biogeochemical Carbon Data Assembly, QC, Access and Archival</b>	Eugene Burger	Science Data Integration Group
<b>The NOAA Observing System Monitoring Center</b>	Eugene Burger	Science Data Integration Group
<b>Find out how a few nerds manage a data collection of 12,000+ data sets with open-source software, ingenuity and a bit of custom software glue.</b>	Eugene Burger	Science Data Integration Group
<b>PyFerret - An easier way to explore your data</b>	Eugene Burger	Science Data Integration Group
<b>Our Public Private Partnerships rapidly developed and deployed new drones to meet scientific regional observing needs</b>	Noah Lawrence-Slavas	Engineering Development Division
<b>Preliminary Results of a 2019 Acoustics-trawl Survey in the U.S. Continental Region of the Chukchi Sea</b>	Steven Anderson	Engineering Development Division