

	Time range	Time Slot	Sala 4 Plenary + Theme A	Sala 5 Theme B/C	Sala 6 Theme D	Sala 2 Theme E	Sala 3 Theme F
Morning	08:00 - 09:00		Registration				
	09:00 - 9:50		Opening session				
	9:50 - 10:40		Plenary Speaker: Samantha Siedlecki				
	10:40 - 11:30		Plenary Speaker: Cristian Vargas				
Afternoon	11:30-14:10		Lunch Break				
	13:30 - 15:30	-	Ocean Processes Moderated by: David González-Santana and Luana Pinho	Mollusks and Crustaceans Moderated by: Annie Schatz and Abigail Sisti	Estuaries Moderated by: Libby Jewett and Nirupama Saini	Impacts and Risks to Fisheries, Aquaculture, and Food Security Moderated by: Paco Quintana and A. Ajay Singh	Capacity Building and Best Practices Moderated by: Kirsten Isensee and Dambola Cossa
		14:10 - 14:30	Free	Free	Free	Free	Valauri-Orton: Equity in Ocean Acidification Research: Development of a Low-cost Kit for OA Monitoring
		14:30 - 14:50	Porter: Carbonate chemistry and accretion/dissolution dynamics on the southern-most coral reefs in the Western Indian Ocean <i>Virtual</i>	Gómez Reyes: Physiological assessment in response to two near-future OA escenarios during abalone (<i>Haliotis rufescens</i>) larval development <i>Virtual</i>	Batista: Spatial and diurnal variability of net water-air CO2 fluxes in an amazon macrotidal estuary	Bednaršek: pH Magnitude, Variability and Predictability across Pacific Coast Estuaries determines the level of shell dissolution in Economically Important Calcifiers under Ocean Acidification scenarios	Kotra: Ocean Acidification Monitoring in Vanuatu: Introduction and Capacity Building
		14:50 - 15:10	Arbilla: CO2 Sink and Source Zones Delimited by Marine Fronts in the Drake Passage <i>Virtual</i>	Walker: Response of the Physiological Condition of <i>Mytilus edulis</i> and <i>Donax variabilis</i> to Temporal and Spatial Variation in Water Quality	Amaral: Effect of Dissolved Organic Matter on Total Alkalinity and CO2 Concentration in a Subtropical Shallow Estuary	Birchenough: Exposure of commercial shellfish to changing pH levels: how do we scale-up experimental evidence to regional impacts? <i>Virtual</i>	Currie: The development of accessible best practices for monitoring ocean acidification globally through the "GOA-ON in a Box" initiative
		15:10 - 15:30	Ogundare: Winter Carbonate System Properties in the South Atlantic Ocean South of Africa	Sola-Hidalgo: Effects of upwelling in calcification, growth and mortality of Chilean scallops (<i>Argopecten purpuratus</i>) cultured in Tongoy bay (30° 12'S, 71° 34'W)	Pacella: Watershed Controls of Acidification Dynamics in Estuaries of the United States: from Case Study to National Assessment <i>Virtual</i>	Sordo: Long-term effects of high CO2 on growth and survival of juveniles of the striped venus clam <i>Chamelea gallina</i> : implications of seawater carbonate chemistry	Soapi: Pacific Islands Ocean Acidification Centre: Building Monitoring Capacity from Local to Regional Scales
	15:30 - 16:00		Coffee break				
	16:00-17:20	-	Methods, Sensors and Proxies Moderated by: Luana Pinho and Carla F. Berghoff	Fishes Moderated by: Carla Edworthy and Giancarlo Correa	Coasts Moderated by: L. Antonio Cuevas and Cale Miller	Impacts and Risks to Fisheries, Aquaculture, and Food Security Moderated by: Libby Jewett and Dambola Cossa	Capacity Building and Best Practices Moderated by: Lina Hansson and Celeste Sánchez-Noguera
		16:00 - 16:20	Lowder: Lower Cost and Complexity for Carbonate Chemistry Measurements: the pCO2 to Go as a Tool for Observation and Adaptation	Munday: Ocean Acidification and the Behaviour of Marine Fishes <i>Virtual</i>	González-Santana: Coastal Carbonate System Variability along an Active Lava-Seawater Interface	Navarrete-Mier (Invited): Preliminary assessment of pH variation in small scale aquaculture of whiteleg shrimp larvae in Ecuador	Schoo: Ocean acidification and the UN Sustainable Development Goal 14
		16:20 - 16:40	Batista: Intercomparison of Four Methods to Estimate Coral Calcification Under Various Environmental Conditions	Thomas: Neurobiological Mechanisms Underpinning Behavioural Responses to Elevated CO2 in a Cephalopod <i>Virtual</i>	Isah: Diel carbonate chemistry variability in eutrophied reefs of Bolinao, Northwestern Philippines	Hilmi: The Vulnerability of the Fisheries Sector to Climate Change in the Mediterranean Region	Espinosa-Díaz: The ocean acidification monitoring begins in Colombia: REDCAM Strategy 20 years of inter-institutional cooperation
		16:40 - 17:00	N'Yeurt: Spectrophotometry-derived in situ ocean acidification time series for the Fiji Islands and Dominica: Addressing SDG 14.3 requirements	Spady: The Effects of Projected Future CO2 Concentrations on the Behaviour of Two Species of Tropical Cephalopod <i>Virtual</i>	Alves Chielle: Heterogeneity of CO2 dynamics in the Brazilian Northeast Equatorial coast	Pilcher: Modeling ocean acidification in the Bering Sea to support long-term planning and management of the largest U.S. fishery <i>Virtual</i>	González-Dávila: CanOA, Ocean acidification observation network in the Canary Islands Region
		17:00 - 17:20	Jiang: Synthesis and Visualization of Carbonate and Nutrient Data on North American Continental Shelves	Correa: Modeling the Multiple Action Pathways (MAPs) of ocean acidification effects on Pacific cod in the eastern Bering Sea	Free	Free	Sami-Ashhab: Ecosystem Protection Plans and Application of Neural Networks for pH Prediction in the Gulf of Aqaba-Jordan Coastal Water
Evening	17:20-19:30		Poster Presentations				

Day 2	Time range	Time slot	Sala 4 Plenary + Theme A	Sala 5 Theme B/C	Sala 6 Themes D + B/C	Sala 2 Theme B/C + E	Sala 3 Themes A + F
Morning	08:00 - 08:50		Plenary Speaker: Steve Widdicombe				
	08:50 - 9:40		Plenary Speaker: Dimitri Gutiérrez				
	9:40 - 10:00		Break				
		-	Ocean Processes Moderated by: Libby Jewett, Tim Iringan, and Matheus Batista	Mollusks and Crustaceans Moderated by: Betina Lomovasky and Halle Berger	Seeps and Vents Moderated by: David González-Santana and Masahiko Fujii	Free Session	International and Regional Collaborations and Coordination Moderated by: Kirsten Isensee and Krishna Kotra
	10:00 - 10:20	Cryer: The Role of Riverine Input in Coastal Ocean Acidification: A Case Study from Belize	Manriquez: The combined effects of ocean acidification and temperature levels on the thermal niche of two invertebrate species	Agostini: What we learn from the Shikine CO2 seep on the effects of high CO2 on hermatypic corals <i>Virtual</i>	Newton (Invited Speaker): The Global Ocean Acidification Observing Network, GOA-ON: Ten years later and one hundred countries strong		
	10:20 - 10:40	Itahí de la Cruz-Ruiz: Coastal air-water carbon dioxide flux in front of a community of the northwestern Mexican Tropical Pacific, in 3 different years	Córdova-Rodríguez: Effect of low pH on calcification and mechanical properties of Peruvian scallop <i>Argopecten purpuratus</i>	Mirasole: Fish assemblages cope with ocean acidification: a study case from two Mediterranean shallow CO2 vents <i>Virtual</i>	Bantelman: An overview of the Ocean Acidification International Coordination Centre's (OA-ICC) efforts to advance OA science		
	10:40 - 11:00	Espinosa-Carreón: First registers of dissolved inorganic carbon and CO2 ocean-atmosphere fluxes in the Baja California Sur Frontal System, Mexico <i>Virtual</i>	Duvane: Phenotypic plasticity on the sea urchin <i>Echinus esculentus</i> larvae under constant and fluctuating seawater pH conditions	Teixidó: Functional biodiversity loss in newly discovered natural CO2 vent systems <i>Virtual</i>	Chieridi: New science program to study ocean acidification along the coast of Africa and the Indian Ocean as part of the EAF Nansen Program <i>Virtual</i>		
	11:00 - 11:20	Chapa-Balcorta: Coastal acidification in the Southern Mexican Tropical Pacific: the buffering role of riverine input in upwelling-dominate regions	McFarland: Physiological response of oyster larvae to interactive effects of climate change variables	Bermudez: Volcanic CO2 vents at the Galapagos: a natural laboratory for long term multidisciplinary ocean acidification research <i>Virtual</i>	Mullen: The Ocean Acidification Information Exchange: an Online Community Connecting Questions with Answers		
	11:20 - 11:40	Free	Di Pol: From Scenario to Tipping-point experiments: revisiting responses of the Pacific oyster to Ocean Acidification <i>Virtual</i>	Carbonne: Early life stages of Mediterranean corals are more sensitive to ocean acidification than adults <i>Virtual</i>	Bhadury: South Asia Regional Hub on Ocean Acidification (SAROA)- ocean acidification research for sustainable oceans <i>Virtual</i>		
11:40 - 12:00	Free	Sisti: Effects of Acute Exposure to Reduced pH on the Physiology of American Lobster Embryos (<i>Homarus americanus</i>)	Harvey: Feedback mechanisms stabilise degraded turf algal systems at a CO2 seep site <i>Virtual</i>	Gómez Batista: Observatory for the Study of OA in Cuba: First Results and Challenges for Its Sustainability			
12:00 - 14:10		Lunch Break					
Afternoon		Seasonal Variability Moderated by: Rodrigo Kerr and Tim Iringan	Mollusks and Crustaceans Moderated by: Halle Berger and Nina Bednarek	Free Session	Solutions: from MPAs to CDR Moderated by: Libby Jewett and Sam Mogen	International and Regional Collaborations and Coordination Moderated by: Lina Hansson, Amy Markel, and Katy Soapi	
	14:10 - 14:30	Curra-Sánchez: Effects of contrasting land uses on the availability of Coloured Dissolved Organic Matter (CDOM) and the carbonate system in the coastal ocean <i>Virtual</i>	McElhany: Dungeness crab in an acidifying ocean		Cross: Carbon Dioxide Removal Research at NOAA <i>Virtual</i>	Cochran: U.S. Interagency Working Group on Ocean Acidification: Federal Policy and Coordination through National Strategic Plan and Vulnerability Report	
	14:30 - 14:50	Sánchez Noguera: Carbonate chemistry along the Pacific coast of Costa Rica	Brush: Simulating the Impact of Ocean Acidification and Associated Stressors on the Eastern Oyster, <i>Crassostrea virginica</i> , in Chesapeake Bay		Bernal: Evaluation of carbonate chemistry in two stations with contrasting conservation characteristics: First 3 years of measurements	McGovern: The OSPAR Assessment of Ocean Acidification in the North-East Atlantic	
	14:50 - 15:10	Idrissi: New marine observations of carbonate chemistry variability and ocean acidification state in North West Africa waters	Jorquera: Effects of pCO2 on Aerobic Respiration and Critical Oxygen Pressure (Pcrit) of Two Squat lobster Species (<i>Pleuroncodes monodon</i> and <i>Cervimunida johni</i>)		Miller: High-latitude Seagrass Pools Experience Carbonate Chemistry Decoupling During Times of High Photosynthetic Activity	Meléndez & Palacio: Caribbean Ocean Acidification Community of Practice	
	15:10 - 15:30	Martínez-Fuentes: On the causes of the seasonal dynamics of the inorganic carbon chemistry in Bahía de los Angeles, Gulf of California (México) <i>Virtual</i>	Ramaglia da Mota: Does the effect of ocean acidification and salinity variation on crab <i>Callinectes danae</i> gene expression and physiology increase over long periods of exposure? <i>Virtual</i>		Singh: Resource, Biodiversity and Water Quality Baseline Mapping of the Cakau ni sasi and Yarawa Reef Ecosystem within the Great Sea Reef of Fiji	Sanchez-Cabeza: Ocean Acidification Research in Latin America and The Caribbean by the REMARCO Network	
	15:30 - 16:20		Coffee break				
		Methods, Sensors and Proxies Moderated by: Moh'D Sami Ashhab and Bronte Tilbrook	Seagrass, Mollusks, and Macrophytes Moderated by: Antoine De Ramon N'Yeurt and Nina Bednarek	Latin America Moderated by: Paco Quintana and Valentina Amaral	Adapting Human Communities, Economies, Industries Moderated by: Libby Jewett and Laura Sordo	Interannual Variability Moderated by: Abigail Sisti and Margaret Ogundare	
	16:20 - 16:40	Álvarez: Ocean acidification at the crossroads: approaching unpurified and purified m-cresol spectrophotometric pH measurements	Fernandez: Local Adaptation Modulates Kelp's Responses to Global Climate Change: A Phenotypic and Genetic Approach	Bernales: Implications of ENSO on the coast-ocean gradient of siliceous and calcareous phytoplankton communities off the central coast of Peru <i>Virtual</i>	Ombres: Assess, Anticipate, Adapt: Vulnerability and Responses to Ocean Acidification in the US	Barbero: Ocean Acidification trends in the Gulf of Mexico: Results from the GOMECC program	
	16:40 - 17:00	Evans: A nearshore Burke-o-Lator network along the North American Pacific coast <i>Virtual, live</i>	Díaz-Pulido: The Effects of Ocean Acidification on Macroalgal Physiology and Ecology and Implications for Coral Reefs	Berghoff: New Sea Surface CO2 Fugacities measurements in the Argentine Sea	Falkenberg: Physical and mental health consequences of ocean-acidification driven changes to marine biodiversity <i>Virtual</i>	Cuevas: From short-term to interannual variability of carbonate system parameters at near-shore sites	
	17:00 - 17:20	Hammermeister: State of the Art Autonomous CO2 System Measurements Onboard Boaty McBoatface: Results from an 8-day Mission in the Celtic Sea	Kumar: Evaluation of growth, primary productivity, nutritional composition, redox state, and antimicrobial activity of red seaweeds <i>Gracilaria debilis</i> and <i>G. foliifera</i> under pCO2 induced seawater acidification	Díaz-Rosas: Calcifying Phytoplankton in the Eastern South Pacific for Understanding Ocean Acidification	Free	Pinho: CO2 fluxes between air-water interface at SAMBAR Project	
	17:20 - 17:40	Chu: Field deployment of a new generation of carbon dioxide sensor in an underway application <i>Virtual</i>	Free	Vellojin: Seasonal variability of the air-sea CO2 flow in a sub-Antarctic glacier fjord (Chile, 53°S): Patagonia southernmost fjords as a CO2 sink region?	Free	Nestor: Ocean Acidification monitoring project in Palau	
	17:40 - 19:30		Poster Presentations				

Day 3	Time range	Time slot	Sala 4 Plenary + Theme A	Sala 5 Theme B/C	Sala 6 Theme D	Sala 2 Theme B/C	Sala 3 Theme F
Morning	08:00 - 08:50		Plenary Speaker: Jessie Turner				
	08:50 - 9:40		Plenary Speaker: Frédéric Gazeau				
	9:40 - 10:00		Break				
	10:00 - 11:40	-	Seasonal Variability Moderated by: Matheus Batista, Raffi Isah, and Nirupama Saini	Mollusks and Crustaceans Moderated by: Taylor Walker and Catherine Czajka	Arctic Moderated by: Margaret Ogundare and Jose Martin Hernandez Ayon	Intertidal Communities Moderated by: Libby Jewett and Laura Sordo	Free Session
		10:00 - 10:20	Palacio: Carbonate system along the Florida Reef Tract: Long term trends, seasonality, and regional variation	Meseck: Energetic response of Atlantic surfclam Spisula solidissima to Ocean acidification: an experimental and dynamic energy budget model Virtual	Fransson: Storms and sea-ice processes in the high Arctic Ocean enhance wintertime ocean CO2 uptake Virtual	Jewett: Challenges of Scaling Ocean Acidification Impacts from Lab to Field	
		10:20 - 10:40	Ibello: Carbon dioxide fluxes and pH levels in the surface waters of the North-East Levantine basin (Mediterranean Sea)	Schatz: Comparing Physiological Effects, from Cellular to Whole-Organism, of Co-exposure to Ocean Acidification and Warming in Two Groups of Larval Eastern Oysters, Crassostrea virginica	Rastrick: Natural Analogues of an Arctic in Rapid Transition (AnalogueART working group) Virtual	Espinel-Velasco: To Settle, or not to Settle: Marine Biofilms, Larval settlement and Ocean Acidification	
		10:40 - 11:00	Nalk: Seasonal shift in pCO2 source and sink status in the eastern Arabian Sea	Sisti: Effects of Acute Exposure to Reduced pH on the Physiology of American Lobster Embryos (Homarus americanus)	Corrales Guerrero: Fate of cold-water coral reefs – using natural gradients to identify dominant drivers of ecosystem change resulting from ocean acidification and warming Virtual	Ouillon: Effects of Different Oxygen and pH Regimes on Energy Metabolism and Biological Functions of the Ragworm Hediste diversicolor	
		11:00 - 11:20	Ono: Short-term variation of pH in seawaters around Japan coastal areas: Its characteristics and forcings Virtual	Castillo-Briceno: Dissecting ocean acidification potential impacts during the early life cycle of the Tropical Pacific shrimp Litopenaeus vannamei in Ecuador	Polukhin: Long-term spatio-temporal variability of DIC, carbon dioxide flow and ocean acidification rate on the Arctic shelf Virtual	Widdicombe: Unifying biological field observations to detect and compare ocean acidification impacts across marine species and ecosystems	
	11:20 - 11:40	Vance: Evaluating Seasonal and Long-term Carbon Dynamics in the South Pacific	Free	Chierici: Highlights from 8-years of monitoring Ocean Acidification in Norwegian waters Virtual	Chatzinikolaou: Impact of Ocean Acidification on Different Life Traits of the Gastropod Hexaplex trunculus Virtual		
11:40 - 13:30		Lunch Break					
Afternoon	13:30 - 15:30	-	Mollusks and Crustaceans Moderated by: Betina Lomovasky and Taylor Walker	Arctic Moderated by: Jose Martin Hernandez Ayon and Mario Hurtado	Intertidal Communities Moderated by: A. Ajay Singh and Yimnang Golbuu	Stakeholder Engagement and Policy Action Moderated by: Libby Jewett and Amy Markel	
		13:30 - 13:50	Free	Free	Free	Bellerby (Invited Speaker): Co-produced ocean acidification scenarios for coastal Norway	
		13:50 - 14:10	Free Session	Giménez: Responses of a British Columbia bivalve foundation species to acidification experiments incorporating environmental and population complexity: Investigating transgenerational exposures, responses to dynamic PCO2 treatments, and synergistic effects of thermal and acidification stress Virtual	Jones: Ocean Acidification State in the Arctic: Contemporary Dynamics Around the Svalbard Archipelago Virtual	McGraw: How Will Biota Respond To A Changing Ocean? A Best Practice Guide for Multiple-Driver Research	Pugh: Canada's Ocean Acidification Community of Practice
		14:10 - 14:30		Bednaršek: Carapace Dissolution, Growth decline and mechanoreceptor damages in Dungeness crab related to severity of ocean acidification gradients	Green: Studying changing carbonate chemistry in the Arctic Ocean using satellite Earth observation Virtual, live	Dupont: Mechanism of local adaptation to natural variability in pH in marine calcifiers	Makomere: Addressing Ocean Acidification through Polycentric Governance: Shifting the Focus to Regulation of Ocean Acidification Response Strategies
		14:30 - 14:50		Schatz: Comparing Physiological Effects, from Cellular to Whole-Organism, of Co-exposure to Ocean Acidification and Warming in Two Groups of Larval Eastern Oysters, Crassostrea virginica	Free	Sklope-Cobo: Multiple climate change stressors impact fundamental subcellular stress response in marine calcifiers: Novel approaches for stress detection and quantification Virtual, live	Turner: International Alliance to Combat Ocean Acidification: Governments Working Together to Increase Ambition to Reduce Carbon Dioxide Emissions and Implement Strategies to Assess and Prepare for Impacts of Ocean Acidification
		14:50 - 15:10		Czajka: Impacts of future climate change on Chesapeake Bay carbonate chemistry and oyster growth	Free	Caillon: Physiological and immune response of oysters to climate change as a function of diet and tidal regime	Currie: Practical Resources and Strategies to Assist Policymakers in Managing Ocean Acidification
		15:10 - 15:30	Watson: Ocean acidification alters invertebrate behaviour across multiple trophic levels Virtual	Free	Free	Carter: Supporting State Action on Ocean Acidification: Mobilizing Solutions-focused Science, Policy and Management in California Virtual	
		15:30 - 16:00		Coffee Break			
	16:00-17:20	-	Methods, Sensors and Proxies Moderated by: Moh'd Sami Ashhab and Bronte Tilbrook	Fishes Moderated by: Paula Judith Rojas-Higuera and Yimnang Golbuu	Multiple Stressors and Adaptations Moderated by: Pamela Fernandez and Jean-Pierre Gattuso	Plankton Moderated by: Carla F. Berghoff	Seagrass, Mollusks, and Macrophytes Moderated by: Antoine De Ramon N'Yeurt and Nina Bednarek
		16:00 - 16:20	Clegg: A New Chemical Model to Constrain the Impacts of Ocean Acidification in Aquatic Systems: Application to pH and the Carbonate System Virtual	Edworthy: Combining Monitoring and Eco-Physiology to understand the response of a coastal fish to ocean acidification	Graham: Using natural analogues to study the combined effects of hurricanes and ocean acidification on tropical reefs Virtual	McQuaid: Ocean Acidification Negatively Impacts Marine Primary Productivity by Interfering with Iron Acquisition in Phytoplankton Virtual	Krieger: Internal Chemistry dictates Responses of Coralline Algae to Ocean Acidification
16:20 - 16:40		Jiang: Global ocean acidification indicators: past, present, and future	Mitchell: Ocean Warming and Acidification Degrade Shoaling Performance and Lateralisation of Novel Tropical–Temperate Fish Shoals Virtual	Aldunate: Carbon assimilation in the community inhabiting the secondary chlorophyll maximum of the low pH anoxic marine zones of the Eastern tropical North and South Pacific	Moreno-Alcántara: Atlantic Heteropods as Indicators of Environmental Change in the Southern California Current Virtual	Rivest: Modeling species interactions to evaluate whether seagrass can alter the physiological condition of Eastern oysters under ocean acidification Virtual	
16:40 - 17:00		Osborne: Utilizing Planktonic Foraminiferal Morphometrics as a Gulf of Mexico Paleo-OA Proxy	Ravasi: Genetic variation and phenotypic plasticity in the response of a coral reef fish to ocean acidification Virtual	Santana-Casiano: Fe Biogeochemistry in a High CO2 Ocean	Sugie: Altering planktonic trophic interactions of the Arctic through the different temperature- and CO2 -sensitivities between small and large phytoplankton Virtual	Taise: Effects of ocean acidification on Caulerpa spp Virtual	
17:00 - 17:20		Free	Free	Cipriani: Niche Plasticity allows species to BENEFIT from ocean acidification Virtual	Goes: Assessing the Potential Impacts of Ocean Acidification on Phytoplankton Communities in River influenced Coastal Ecosystems Virtual	Quesquéñ: Composition, distribution and abundance of holoplanktonic mollusks in the coastal Peruvian Upwelling System	

Day 4	Time range	Time slot	Sala 4 Plenary + Theme A	Sala 5 Theme B/C	Sala 6 Theme D + A	Sala 2 Theme B/C	Sala 3 Theme A
Morning		08:00 - 08:50	Plenary Speaker: Sarah Cooley				
		08:50 - 9:40	Plenary Speaker: Guillermo Diaz-Pulido				
		9:40 - 10:00	Break				
		-	Modeling Moderated by: Jose Martín Hernández Ayon and Catherine Czajka	Corals Moderated by: Celeste Sánchez-Noguera and Treasure Warren	Upwelling Moderated by: Libby Jewett and Margaret Ogundare	Plankton Moderated by: Sangeeta Naik and Nina Bednarek	Long-term Trends: Moderated by: Rodrigo Kerr and Raffi Isah
		10:00 - 10:20	Orr (Invited Speaker): Arctic Ocean annual highs in pCO ₂ and [H ⁺] could shift from winter to summer <i>Virtual</i>	Webb: Projections of Reef Habitat Persistence under Ocean Acidification and Warming: Implications of Restoration and Coral Adaptation on the Persistence of the Inshore Patch Reef Cheeca Rocks	Alin: Past, present, and future upwelling season ocean acidification and hypoxia conditions on the Olympic Coast (Washington, USA)	Johnson: Nutritional Content of <i>Emiliana huxleyi</i> Under Ocean Acidification and Warming	Sutton: A call for a community of practice for assessing ocean acidification trends
		10:20 - 10:40	Jarníková: Where Does The Extra Carbon Go? Dominant Impacts of Anthropogenically Modified Carbonate Chemistry in a Temperate Fjord System	Heitzman: Coral-Algae Interactions under Ocean Acidification <i>Virtual</i>	Alvites: Coccolithophore community in the Peruvian Acidic Coastal Upwelling System: Temporal and spatial variability	Yorifuji: Experimental assessment of Ocean Acidification combined with Deoxygenation using a copepod <i>Tigriopus japonicus</i>	Länger: Modelling ocean acidification in a rapidly changing Arctic ocean
		10:40 - 11:00	Petton: Development of a coastal observation monitoring network for carbonate system along the French coast	Barkley: Coral Reef Ecosystem Responses across a Strong Ocean Acidification Gradient in the U.S. Pacific Islands <i>Virtual</i>	Aguilera: Antagonistic interplay between pH and food resources affects copepod traits and performance in a year-round upwelling system	Rigual-Hernández: Response of keystone coccolithophore species to natural and anthropogenically-induced variations of CO ₂ in the Southern Ocean	Huertas: The count-down for calcifiers to dissolve in major Atlantic and Mediterranean water masses due to ocean acidification
		11:00 - 11:20	Burger: Compound Marine Heatwaves and Ocean Acidity Extremes <i>Virtual</i>	Rojas-Higuera: Long-term Trends of pH and Sea Surface Temperatures over Colombian Maritime Areas and the Threats to Regional Corals	Bravo: Variability of carbonate chemistry in the coastal upwelling area in front of Pimentel, Lambayeque – Perú	Free	Duke: Seasonal, Interannual, and Long-Term Trends in Air-Sea CO ₂ Fluxes in the Northeast Pacific
		11:20 - 11:40	Lavoie: Drivers, Variability, and Projections of pH and Calcium Carbonate Saturations in Three Distinct Regions of the Gulf of St. Lawrence <i>Virtual</i>	van der Heide: Calcification and Photosynthetic Responses of Reef-Building Corals to Ocean Acidification	Free	Free	Graco: A Long-term Observatory of Marine-coastal Acidification and ODS in the Upwelling System off Peru: Challenges and Opportunities
		11:40 - 12:00	Mogen: Near-Term Predictions of Ocean Acidification	Kirkland: Laboratory Experiments Reveal Reef Invertebrates in the Northern Gulf of Mexico are Sensitive to Warming yet, can Acclimate to Acidification	Free	Free	Free
Afternoon		12:00 - 13:00	Lunch Break				
		-	Modeling Moderated by: Masahiko Fujii and Sam Mogen	Corals Moderated by: Pamela Fernandez and Treasure Warren	Free Session	Free Session	Free Session
		13:00 - 13:20	Feely (Invited Speaker): Anthropogenic Carbon Concentrations in the Pacific Ocean: Implications for Ocean Acidification Since the Beginning of the Industrial Era	Cornwall: Global Declines in Coral Reef Calcium Carbonate Production under Ocean Acidification and Warming <i>Virtual</i>			
		13:20 - 13:40	Musetti: Carbonate System Reconstruction at the Western Tropical Atlantic Ocean Surface Waters <i>Virtual</i>	Enochs: Moving Past the Mean: The Amplitude of Diel pH Fluctuations Can Influence Coral Calcification			
		13:40 - 14:00	Bernardo: Comparative Marine Ecosystem Modelling to Assess the Impacts of Ocean Acidification and Hypoxia in Miyako Bay and Tokyo Bay, Japan	Simancas-Giraldo: Ecophysiological Responses of Four Soft Coral Genera to Ocean Acidification			
		14:00 - 15:00	Coffee break				
		15:00 - 16:00	Plenary Speaker: Dalin Shi (<i>virtual</i>) Closing Ceremony				