



## Monday at a glance

	Hanse Saal	Kaisen Saal	Borgward Saal	Salon Focke-Wulf	Saal Lloyd	Salon Danzig	Salon London	Salon Scharoun	Salon Roselius	Salon Bergen
9.00 - 9.45	Opening Ceremony (Hanse Saal)									
9.50 - 10.35	Morning Plenary: Nancy Knowlton (Hanse Saal)									
10.35 - 11.00	Coffee break									
11.00 - 12.30	12B - Can we help people make smart choices in a time of crisis and uncertainty?	7A - Open Session: Scalable observations and technologie	4B+F - Fifty years of disease studies on coral reefs and other marine communities: What have we learned? + What is the current knowledge on understanding and effectively responding to coral disease outbreaks?	9E - Ocean acidification and coastal acidification: What are the drivers, processes and consequences for coral reef ecosystems?	11C - Shift in scleractinian dominated reefs - are we facing new winners - octocorals, sponges and macroalgae? / Sponges on coral reefs: how can we reconcile contradictory reports on controls, population and community dynamics, and functional roles?	2A - Open Session: Species and their populations	6C - Mesophotic Coral Ecosystems: Lifeboats in the Challenging Future of Coral Reefs?	3C - Coral reef metabolism and biogeochemical processes (organism to ecosystem): What are current state and future trajectories of reef functioning?		
	12K - Resilient Reefs: What is the Evidence for and the Future of Resilience-Based Management?									
12.30 - 14.00	Lunch break									
14.00 - 14.45	Afternoon Plenary: Hans-Otto Pörtner (Hanse Saal)									
14.50 - 16.05	12L - What are the challenges, solutions and synergies at the interface of science and policy to successfully conserve coral reefs?	7A - Open Session: Scalable observations and technologie	4B+F - Fifty years of disease studies on coral reefs and other marine communities: What have we learned? + What is the current knowledge on understanding and effectively responding to coral disease outbreaks?	9F - Plastics in corals reefs: What is there and how does it impact reef organisms?	11C - Shift in scleractinian dominated reefs - are we facing new winners - octocorals, sponges and macroalgae? / Sponges on coral reefs: how can we reconcile contradictory reports on controls, population and community dynamics, and functional roles?	2A - Open Session: Species and their populations	6C - Mesophotic Coral Ecosystems: Lifeboats in the Challenging Future of Coral Reefs?	3C - Coral reef metabolism and biogeochemical processes (organism to ecosystem): What are current state and future trajectories of reef functioning?	WS1 - How important are oceanic fisheries for a) coastal marine resource use and management, and b) food security of island populations?	WS2 - How do we best design, validate, and monitor test-beds for radical reef intervention?
16.05 - 16.30	Coffee break									
16.30 - 18.15	12H - How to design participatory processes to achieve transformations in reef management towards a sustainable future?	7C - How can new imaging-based tools help us better understand corals and other reef organisms?	4B+F - Fifty years of disease studies on coral reefs and other marine communities: What have we learned? + What is the current knowledge on understanding and effectively responding to coral disease outbreaks?	9B - How do local drivers mediate coral reef ecosystem responses to climate change?	13E - How can interventions and restoration help coral reefs survive the next few decades?	2A - Open Session: Species and their populations	6C - Mesophotic Coral Ecosystems: Lifeboats in the Challenging Future of Coral Reefs?	15C - Models as synthesis tools in coral reef research - How to identify drivers, facilitate projections, and aid management?	WS1 - How important are oceanic fisheries for a) coastal marine resource use and management, and b) food security of island populations?	WS2 - How do we best design, validate, and monitor test-beds for radical reef intervention?
			4E - The jellyfish <i>Cassiopea</i> - a model organism?					4G - What is the role of benthic holobionts and free-living microbes in element recycling and overall ecosystem functioning?		

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9.00 - 9.45	<b>Morning Plenary: Natalie Ban (Hanse Saal)</b>									
9.50 - 10.35	13F - How can we apply sexual propagation to restore resilient coral reefs at significant scales?	7F - What can molecular approaches contribute to determining sublethal stressor effects on coral reefs and evaluating the effectiveness of management interventions?	4D - What are the drivers of similarity and dissimilarity within the microbiome of reefs and reef organisms?	6B - From refugia to extreme coral habitats: What can we learn? And how can they aid future coral survival?	10F - What role do non-genetic mechanisms play in adaptation of reef inhabitants to climate change?	1E - What can corals and marine calcifiers tell us about anthropogenic effects and trajectory of coral reef ecosystems under global change?	12A - Open Session: Conservation and management	2D - How will the coral populations of today affect the ecology and recovery of coral reefs in the future?		
10.35 - 11.00	<b>Coffee break</b>									
11.00 - 12.30	13F - How can we apply sexual propagation to restore resilient coral reefs at significant scales?	7H - Where are coral reefs now and where are they headed: The status of coral reefs of the world in 2022	4D - What are the drivers of similarity and dissimilarity within the microbiome of reefs and reef organisms?	6B - From refugia to extreme coral habitats: What can we learn? And how can they aid future coral survival?	10B - How do ecological processes affect the adaptation and evolution of coral reef organisms in the Anthropocene?	1E - What can corals and marine calcifiers tell us about anthropogenic effects and trajectory of coral reef ecosystems under global change?	12A - Open Session: Conservation and management	2D - How will the coral populations of today affect the ecology and recovery of coral reefs in the future?	WS3 - How can we develop new tools and best practices to accurately delimit Symbiodiniaceae diversity in reef research?	WS4 - Coral disease forecasting for the Pacific Ocean: demonstrating a new tool from NOAA Coral Reef Watch
12.30 - 14.00	E1 - CORDAP/GFCR event	<b>Lunch break</b>								
14.00 - 15.00	<b>Science-to-Policy Dialogue (Hanse Saal)</b>									
15.05 - 15.50	<b>Afternoon Plenary: Raquel Peixoto (Hanse Saal)</b>									
15.50 - 16.15	<b>Coffee break</b>									
16.15 - 18.15	7H - Where are coral reefs now and where are they headed: The status of coral reefs of the world in 2022  7J - How can innovative techniques to investigate calcification and its mechanism shed light into the past, present and future of coral reef organisms?	13F - How can we apply sexual propagation to restore resilient coral reefs at significant scales?	4D - What are the drivers of similarity and dissimilarity within the microbiome of reefs and reef organisms?	6B - From refugia to extreme coral habitats: What can we learn? And how can they aid future coral survival?	10H - Behavioural responses to environmental change: what are the underlying mechanisms, ecological significance, and future consequences?	1G - Can large-scale ocean and climate reconstructions from corals improve our understanding of past, present, and future extremes?	12A - Open Session: Conservation and management  12N - Communities of Practice - Do Learning Networks lead to better local management?	15F - How has mass coral bleaching changed through time and how is it expected to progress into the future: Tools, products, and analyses. / Can evolution rescue corals from the effects of climate change?		WS5 - Get your story heard! Using art to communicate coral reef science and conservation.
18.15 - 20.00	<b>Poster Session (Hall 4.1)</b>									

### Wednesday at a glance

	Hanse Saal	Kaisen Saal	Borgward Saal	Salon Focke-Wulf	Saal Lloyd	Salon Danzig	Salon London	Salon Scharoun	Salon Roselius	Salon Bergen	External			
9.00 - 9.45	<b>Morning Plenary: Nick Graham (Hanse Saal)</b>													
9.50 - 10.35	13C - Creating coral reefs in waiting: Can we harness heterogeneity in phenotypic-stress response to optimize coral reef restoration?	3A - Open Session: Ecosystem functions and services	4A - Open Session: Microbial ecology, holobionts and model organisms	10E - What phenotype, genotype, and environmental factors underlie coral vulnerability and resilience to thermal stress and bleaching?	7B - How can autonomous data-driven robotics be used to improve cost effectiveness and spatial/temporal scaling of reef assessments?	2E - What are the Patterns, Causes and Consequences of Intraspecific Variation in Marine Larval Dispersal and Population Connectivity?	9K - Beyond single-species experiments: how do marine populations, communities, and ecosystems respond to global change?	5A - Open Session: Cold-water and temperate reefs	WS6 - Reef research in times of the COVID-19 pandemic	WS13 - Which characteristics define coral reefs in the Anthropocene?				
10.35 - 11.00	<b>Coffee break</b>													
11.00 - 12.30	13C - Creating coral reefs in waiting: Can we harness heterogeneity in phenotypic-stress response to optimize coral reef restoration?  13H - Can coral climate resilience be enhanced via assisted evolution?	3A - Open Session: Ecosystem functions and services	4A - Open Session: Microbial ecology, holobionts and model organisms	10E - What phenotype, genotype, and environmental factors underlie coral vulnerability and resilience to thermal stress and bleaching?	7B - How can autonomous data-driven robotics be used to improve cost effectiveness and spatial/temporal scaling of reef assessments?  7G - What can we learn about the biology of coral reef organisms from 'omics-based analyses?	2E - What are the Patterns, Causes and Consequences of Intraspecific Variation in Marine Larval Dispersal and Population Connectivity?	9K - Beyond single-species experiments: how do marine populations, communities, and ecosystems respond to global change? / How do organismal responses scale to ecosystem processes?	5A - Open Session: Cold-water and temperate reefs  5B - What is the different impact of climate change in temperate reefs relative to tropical regions?						
12.30 - 14.00	<b>Lunch break</b>													
14.00 - 14.45	<b>Afternoon Plenary: Katharina Fabricius (Hanse Saal)</b>													
14.50 - 16.05	13G - What methods and techniques can scale-up coral reef restoration?	3A - Open Session: Ecosystem functions and services	4A - Open Session: Microbial ecology, holobionts and model organisms	10E - What phenotype, genotype, and environmental factors underlie coral vulnerability and resilience to thermal stress and bleaching?	7G - What can we learn about the biology of coral reef organisms from 'omics-based analyses?	2B - How can we use phylogenetic tools to better understand biodiversity, evolutionary patterns, and processes?	9G - Thinking outside the reef: how do open-ocean processes influence coral reefs now and in the future?	1B - Lessons from the past: how do coral reefs respond to paleo-environmental and oceanographic changes over different spatio-temporal scales?	WS8 - How do you accelerate coral reef science and conservation through better data management workflows?	WS9 - What alterations, new roles and perspectives can we foresee for Octocorals under climate change conditions?				
16.05 - 16.30	<b>Coffee break</b>													
16.30 - 18.15	13G - What methods and techniques can scale-up coral reef restoration?	3E - How will ecosystem services from coral reefs change?  9C - How will anthropogenic stressors influence the roles of consumer-derived nutrients on coral reefs?  9J - What do we know about cyclone impacts on reefs and how can it help target where to take conservation action?	4A - Open Session: Microbial ecology, holobionts and model organisms	10E - What phenotype, genotype, and environmental factors underlie coral vulnerability and resilience to thermal stress and bleaching?	7G - What can we learn about the biology of coral reef organisms from 'omics-based analyses?	2B - How can we use phylogenetic tools to better understand biodiversity, evolutionary patterns, and processes?	9D - Is ocean deoxygenation a key factor regulating global decline of coral reefs?	1B - Lessons from the past: how do coral reefs respond to paleo-environmental and oceanographic changes over different spatio-temporal scales?						
											Science Tours			

## Thursday at a glance

	Hanse Saal	Kaisen Saal	Borgward Saal	Salon Focke-Wulf	Saal Lloyd	Salon Danzig	Salon London	Salon Scharoun	Salon Roselius	Salon Bergen
9.00 - 9.45	<b>Morning Plenary: Iliana Baums (Hanse Saal)</b>									
9.50 - 10.35	4H - Beyond diversity: What can we learn from exploring microbial function in coral reef holobionts?	10G - What role does phenotypic plasticity play in acclimatization or adaptation to environmental change?	2C - How is coral reproduction and dispersal affected by the environment?	3F - What are the roles of nutrients in coral reef survival?	7E - What are the genetic and cellular mechanisms underlying cnidarian-dinoflagellate symbiosis and its breakdown during bleaching?	9A - Open Session: Global and local impacts	11A - Open Session: Resilience, phase shifts and novel ecosystems			
10.35 - 11.00	<b>Coffee break</b>									
11.00 - 12.30	4H - Beyond diversity: What can we learn from exploring microbial function in coral reef holobionts?	10G - What role does phenotypic plasticity play in acclimatization or adaptation to environmental change?	2C - How is coral reproduction and dispersal affected by the environment?  2F - Coralline algae: what are their global contributions to coral reefs now and in future oceans?	3F - What are the roles of nutrients in coral reef survival?	7E - What are the genetic and cellular mechanisms underlying cnidarian-dinoflagellate symbiosis and its breakdown during bleaching?	9A - Open Session: Global and local impacts	11A - Open Session: Resilience, phase shifts and novel ecosystems	8A+B - Open Session: Human relations to reefs + How can social sciences contribute to equal exchanges between different ways of thinking and doing coral protection and rehabilitation?	WS10 - Student and Early Career Chapter networking and skill share	WS11 - The Allen Coral Atlas: How can global mapping of coral reefs enhance monitoring, management, and policy?
12.30 - 14.00	<b>Lunch break</b>									
14.00 - 14.45	<b>Afternoon Plenary: Jorge Cortés-Núñez (Hanse Saal)</b>									
14.50 - 15.50	4H - Beyond diversity: What can we learn from exploring microbial function in coral reef holobionts?	13B - Can Coral Reef Restoration Increase Coastal Protection?	2B - How can we use phylogenetic tools to better understand biodiversity, evolutionary patterns, and processes?	3F - What are the roles of nutrients in coral reef survival?  3G - Budgetary breakdown: Can reef geo-ecological functions persist in the Anthropocene?	6A - Open Session: Unexplored and unexpected reefs	9A - Open Session: Global and local impacts	11D - What are the biological and fishery consequences of losing coral reef complexity that is critical for fish populations?	ICRS General Meeting		WS12 - Coral reef conservation with climate change: Introducing HighRes-CoralStress, a new 1 km resolution thermal stress dataset
15.50 - 16.15	<b>Coffee break</b>									
16.15 - 17.00	4H - Beyond diversity: What can we learn from exploring microbial function in coral reef holobionts?	13D - Effectiveness of regional coral reef restoration approaches - what can we learn from the Caribbean and Eastern Tropical Pacific?	14 - Open Session: Outreach and education	3G - Budgetary breakdown: Can reef geo-ecological functions persist in the Anthropocene?	10A - Open Session: Organismal physiology, adaptation and acclimation	9A - Open Session: Global and local impacts	1A - Open Session: Reef environments and climate of the past			
17.00 - 19.00										
19.00 - 24.00	<b>ICRS Night (Hall 4)</b>									

### Friday at a glance

	Hanse Saal	Kaisen Saal	Borgward Saal	Salon Focke-Wulf	Saal Lloyd	Salon Danzig	Salon London	Salon Scharoun	Salon Roselius	Salon Bergen
9.00 - 10.00										
10.00 - 10.45	<b>Morning Plenary: Jody Webster (Hanse Saal)</b>									
10.50 - 11.50	10G - What role does phenotypic plasticity play in acclimatization or adaptation to environmental change?	7D - Scaling up: what lessons can we learn across larger scales for understanding coral reefs?	13A - Open Session: Interventions and restoration	1C - Look forward to the past: What role does historical data play in the future of coral reefs?	14 - Open Session: Outreach and education	12D - From Thinking to Doing: What Does It Actually Take to Practice Ecosystem Based Management in Coral Reef Fisheries?	15A - Open Session: New theories and future projections	3D - How do metabolic processes underpin the health and function of reef ecosystems?		
11.50 - 12.30	<b>Coffee and Light Lunch</b>									
12.30 - 14.00	10A - Open Session: Organismal physiology, adaptation and acclimation	7D - Scaling up: what lessons can we learn across larger scales for understanding coral reefs?	13A - Open Session: Interventions and restoration	1C - Look forward to the past: What role does historical data play in the future of coral reefs?	14 - Open Session: Outreach and education	12F - How can successful local reef management and restoration efforts be scaled up to achieve meaningful conservation results?	15B - How will tropical fisheries respond to climate changes on coral reefs?			
					4A - Open Session: Microbial ecology, holobionts and model organisms	11E - How can multi-taxon studies help us understand ecosystem dynamics under climate change?	15E - Will coral reef islands survive 21st century sea-level rise?			
14.00 - 15.15	<b>Closing Ceremony (Hanse Saal)</b>									