

# Reef Conservation UK

## 8<sup>th</sup> – 10<sup>th</sup> December 2020

### #RCUK2020



## Tuesday 8<sup>th</sup> December 2020

**10:00** Welcome and overview of #RCUK2020

**10:10** Plenary speaker I

[Chair: Hannah Gilchrist, *Blue Ventures*]

10:10	<i>Morena Mills</i>	Insights for catalysing environmental conservation	<i>Imperial College London</i>
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**10:40** Session I: Reefs in a Changing World – Part I

[Chair: Hannah Gilchrist, *Blue Ventures*]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
10:40	<i>Amber L.Carter</i>	Assessing opportunities to support coral reef climate change refugia in MPAs: A case study at the Revillagigedo Archipelago	<i>University of Edinburgh</i>
10:52	<i>Mark Hamilton</i>	Climate-induced regime shifts and recovery trajectories of coral reefs determine fisheries productivity and turnover	<i>Lancaster University</i>
11:04		Q and A session	

**11:10** Morning break

**11:30** Session I: Reefs in a Changing World – Part I – continued

[Chair: Hannah Gilchrist, *Blue Ventures*]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
11:30	<i>Tim Gordon</i>	The changing song of the sea: reef soundscapes as indicators and drivers of ecosystem change	<i>Mars Sustainable Solutions</i>
11:42	<i>Nathan Price</i>	Algal Reef Fishes and Behavioural Responses due to Coastal Development	<i>Tunghai University</i>
11:54	<i>Holly Baigent</i>	An investigation into the transmission of stony coral tissue loss disease (SCTLD) across the Caribbean, with a focus on the Turks & Caicos Islands.	<i>University of Plymouth</i>
12:06	<i>Nadia Santodomingo</i>	Ancient and recent turbid reefs in the Coral Triangle: 30 million years of coral resilience	<i>Natural History Museum</i>
12:18		Q and A session	

**12:30** Lunch break

### 13:30 Plenary speaker II

[Chair: David Curnick, ZSL]

13:30	<i>Al Harborne</i>	The complexity of complexity: The importance of habitat structure for fish abundance and behavior in the Florida Keys	<i>Florida International University</i>
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### 14:00 Session II: Reef Ecology

[Chair: David Curnick, ZSL]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
14:00	<i>Débora Silva Ferrari</i>	Functional and trophic structure patterns of reef fishes reveal vulnerability at the remote Ascension Island.	<i>Federal University of Santa Catarina</i>
14:12	<i>Christina Hunt</i>	Temporally offset additive models show invasive lionfish drive fish community shifts across the western Atlantic	<i>University of Oxford</i>
14:24		Q and A session	

### 14:30 Afternoon break

### 14:45 Session II: Reef Ecology – continued

[Chair: David Curnick, ZSL]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
14:45	<i>William F Precht</i>	Catastrophic Impacts of Stony Coral Tissue Loss Disease in the Caribbean	<i>Dial Cordy and Associates, Inc.</i>
14:57	<i>Alexandra Hiley</i>	Spatiotemporal patterns in an octocoral assemblage facing local and global stressors in Southeast Florida	<i>Nova Southeastern University</i>
15:09	<i>Ronen Liberman</i>	Spatio-temporal reproductive phenology of a soft coral across depth	<i>Tel Aviv University</i>
15:21	<i>Paris Stefanoudis</i>	Deeper reef ecosystems in the Indian Ocean: addressing the great unknown	<i>University of Oxford</i>
15:33		Q and A session	

### 15:45 Late afternoon break

### 16:00 Workshop I

	<i>Facilitator</i>	<i>Workshop title</i>	<i>Institution</i>
16:00		MERMAID: An open source data platform for coral reef data collection and visualization	<i>WWF &amp; WCS</i>

### 17:30 Workshop ends



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# Wednesday 9<sup>th</sup> December 2020

**10:00** Welcome address

**10:05** Plenary speaker III

[Chair: Bry Wilson, *University of Oxford*]

10:05	<i>Sarah Lemer</i>	Insights into bleaching disparity among conspecific corals	<i>University of Guam Marine Laboratory</i>
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**10:35** Session III: Molecular Approaches to Coral Reefs

[Chair: Bry Wilson, *University of Oxford*]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
10:35	<i>Benjamin Douglas Young</i>	Can we use gene expression to identify disease resistance in <i>Acropora palmata</i> ? Current knowledge and future directions.	<i>University of Miami</i>
10:47	<i>Rosa van der Ven</i>	Differences in genetic diversity and divergence between brooding and broadcast spawning corals across two spatial scales in the Coral Triangle region.	<i>Vrije Universiteit Brussel</i>
10:59		Q and A session	

**11:05** Morning break

**11:15** Speed networking

**12:00** Session III: Molecular Approaches to Coral Reefs – continued

[Chair: Bry Wilson, *University of Oxford*]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
12:00	<i>Bethan Greenwood</i>	Corals at the extreme: microbial community dynamics of mangrove-influenced corals in the Seychelles	<i>University of Essex</i>
12:12	<i>Margaux Steyaert</i>	Uncovering the genetic diversity of benthic invertebrate and microbial communities across a remote Indian Ocean reef system	<i>University of Oxford/ ZSL</i>
12:24	<i>Giulia Puntin</i>	How to survive high nutrients: holobiont interplay in the photosymbiotic jellyfish <i>Cassiopea xamachana</i>	<i>Justus Liebig University Giessen</i>
12:36	<i>Daisy Buzzoni</i>	A novel field-based method of vectoring thermotolerant algal symbionts (family Symbiodiniaceae) into coral colonies	<i>University of Miami</i>
12:48		Q and A session	

**13:00** Lunch break

**13:30 Workshop II**

<i>Facilitator</i>	<i>Workshop title</i>	<i>Institution</i>
13:30	Using storytelling to engage in science and conservation	Blue Ventures

**15:00 Afternoon break**

**15:30 Workshop III**

<i>Facilitator</i>	<i>Workshop title</i>	<i>Institution</i>
15:30	Building a Better Fieldwork Future: Preventing & Managing Sexual Harassment and Assault in the Field	UC Santa Cruz

**17:00 Workshop ends**



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# Thursday 10<sup>th</sup> December 2020

*Christmas apparel encouraged!*

**10:00** Welcome address

**10:10** Plenary speaker IV

[Chair: Dominic Andradi-Brown, WWF]

10:10	<i>Srey Oun &amp; Matt Glue</i>	Signs of recovery for the coral reefs of Cambodia	<i>Fauna &amp; Flora International</i>
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**10:40** Session IV: Coral Reef Conservation

[Chair: Dominic Andradi-Brown, WWF]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
10:40	<i>Michael Williamson</i>	Application of earth observation data and Google Earth Engine for monitoring coral reef exposure to environmental stressors	<i>King's College London/ZSL</i>
10:52	<i>Marie Seraphim</i>	Short- and medium-term recovery of fish communities on restored coral reefs	<i>University of the West of Scotland</i>
11:04		Q and A session	

**11:15** Morning break

**11:30** Session IV: Coral Reef Conservation continued

[Chair: Dominic Andradi-Brown, WWF]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
11:30	<i>Ana Pinto</i>	Establishing Locally Managed Marine Areas in Mozambique: A new toolkit featuring lessons learnt from Our Sea Our Life's approach to community-based marine conservation in Cabo Delgado	<i>ZSL</i>
11:42	<i>María Arteaga</i>	Moving from site-based conservation measures to integrated seascape management mechanisms in the southern tip of the Mesoamerican Reef, Honduras	<i>LARECOTURH</i>
11:54	<i>Megan K. B. Nolan</i>	Species distribution models to inform coral relocation, restoration, and habitat enhancement planning.	<i>KAUST</i>
12:06		Q and A session	

**12:20** Lunch break

**13:00** Lightning Talk Q and A

**13:45** Break

## 14:00 Session V: Reefs in a Changing World – Part II

[Chair: Sebastian Hennige, *University of Edinburgh*]

	<i>Speaker</i>	<i>Presentation title</i>	<i>Institution</i>
14:00	<i>Nadia Jogee</i>	How corals can 'cheat' the intermediate disturbance hypothesis	<i>University of Edinburgh</i>
14:12	<i>Konstantinos Georgoulas</i>	Modelling how corals apply the Goldilocks Principle to engineer their habitat	<i>University of Edinburgh</i>
14:24	<i>Adriana Humanes</i>	Can we select for heat stress tolerant corals within a population before a bleaching event? Implications for coral reef conservation in the face of climate change	<i>Newcastle University</i>
14:36		Q and A session	
14:45	<i>Julia Strahl</i>	Individual physiological plasticity of high and low heat tolerant <i>Acropora digitifera</i> colonies within a population in Palau	<i>University of Oldenburg</i>
14:57	<i>Liam Lachs</i>	Trade-offs between coral traits: implications for natural selection and assisted evolution	<i>Newcastle University</i>
15:09		Q and A session	

## 15:15 Afternoon break

## 15:45 Plenary speaker V – Closing plenary

[Chair: Sebastian Hennige, *University of Edinburgh*]

15:45	<i>Jamie Craggs</i>	Ex situ coral reproduction: a platform for diverse research approaches	<i>Horniman Museum and Gardens</i>
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## 16:15 Student prizes and closing remarks

## 16:30 Conference end and online afterparty



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