OCEAN VISIONS SUMMIT

Towards a global ecosystem for **ocean solutions**

#OceanVisions21 **May 18-21, 2021**

PROGRAM OVERVIEW

https://www.oceanvisions.org/summit-2021

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

CO-ORGANIZERS & PARTNERS

Georgia Tech Ocean Science & Engineering

SCRIPPS INSTITUTION OF OCEANOGRAPHY

Stanford Center for Ocean Solutions

climateworks FOUNDATION

ocean-climate.org

FUTURE SEAS

OCEANHUB AFRICA

AGU ADVANCING EARTH AND SPACE SCIENCE

OCEAN EXCHANGE

center for Climate Change Impacts and Adaptation

CMS CENTRE FOR MARINE SOCIOECOLOGY

future ocean KIEL MARINE SCIENCES

GEO BLUE PLANET

University of Cape Town

OSCM Ocean Science Centre Mindelo

Coastal Ecosystem Monitoring in Cabo Verde

Ocean Visions Research Consortium

Georgia Tech

Smithsonian

SCRIPPS INSTITUTION OF OCEANOGRAPHY

Stanford University

Massachusetts Institute of Technology

Woods Hole Oceanographic Institution

GEORGIA AQUARIUM

Monterey Bay Aquarium

Skidaway Institute of Oceanography UNIVERSITY OF GEORGIA

MBARI Monterey Bay Aquarium Research Institute

BIRCH AQUARIUM at Scripps Institution of Oceanography UC San Diego

UC SANTA BARBARA

Ocean Visions Acceleration & Impact Partners

AGU ADVANCING EARTH AND SPACE SCIENCE

Ocean Conservancy

SOA SUSTAINABLE OCEAN ALLIANCE

WORLD OCEAN COUNCIL

aiim

OCEAN EXCHANGE

Program Overview & Information

Registration

Registration is FREE l but required to access the virtual room links for Zoom & Spatial Chat.

Register here: https://www.oceanvisions.org/summit-2021

Interactive Program

Anyone can view the interactive program, but only registered users
can customize their schedule of events and access the virtual room links.

Access Program here: https://agu.confex.com/agu/OVS21/meetingapp.cgi/Home/0

Type of Events

Main Sessions (Invited Presentations and Panels)

Main sessions are accessible through Zoom links available through the interactive program portal hosted by AGU (link to interactive program).

Networking Sessions (Contributed Presentations)

Contributed talks and poster are available for on **demand viewing** on the interactive program portal hosted by AGU (link to interactive program). Presenters are available for Q&A with attendees on the summit's virtual platform called **Spatial Chat**. Each presenters has a unique presentation-ID so that participants can quickly search and connect with the presenter on **Spatial Chat** for a live discussion.

Special Events

These events are more regional or thematic in focus and are hosted primarily from the satellite campuses. The events are hosted on Zoom and the link are available on the interactive program portal hosted by AGU (link to interactive program).

Informal Conversation with Early Career Ocean Professionals (ECOP)

Throughout the summit, the ECOP are hosting informal conversations focused on discussing the topics of the main sessions. Anyone can join these conversations using the Zoom link provided in the interactive program portal hosted by AGU (link to interactive program).

Timezones

AU - Hobart, Australia (AEDT)
US - San Diego (PDT) and New York (EST)
Africa - Mindelo, Cabos Verde (CVST)
EU - Paris (CEST/CAT)

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Program Schedule

DAY 1 - Tuesday, May 18, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
Icebreaker Event for Early Career Ocean Professionals (ECOPs)				
12:00 AM-12:30 AM	3:00 AM - 3:30 AM	9:00 AM - 9:30 AM	6:00 AM - 6:30 AM	5:00 PM - 5:30 PM
Conversations on SESSION 1 with ECOPs (EU/Africa/Oceania)				
12:30 AM - 1:30 AM	3:30 AM - 4:30 AM	9:30 AM - 10:30 AM	6:30 AM - 7:30 AM	5:30 PM - 6:30 PM
Summit Opening Ceremony & Panel				
7:00 AM - 7:30 AM	10:00 AM - 10:30 AM	4:00 PM - 4:30 PM	1:00 PM - 1:30 PM	*12:00 AM-12:30 AM
SESSION 1: Accelerating the Ocean's Power to Sequester Carbon and Reverse Climate Disruption				
7:40 AM - 10:40 AM	10:40 AM - 1:40 PM	4:40 PM - 7:40 PM	1:40 PM - 4:40 PM	*12:40 AM - 3:40 AM
SESSION 2a: Equitable Solutions for Coastal Inundations and Sea Level Rise (Americas)				
11:00 AM - 2:30 PM	2:00 PM - 5:30 PM	8:00 PM -11:30 PM	5:00 PM - 8:30 PM	*4:00 AM - 7:30 AM
NETWORKING SESSION 1 & 2 (Americas/Oceania) (Contributed Presentations)				
3:00 PM -5:00 PM	6:00 PM -8:00 PM	12:00 AM -2:00 AM	9:00 PM- 11:00 PM	*8:00 AM -10:00 AM
Conversations on Ocean Solutions with ECOPs (Americas/Oceania)				
3:00 PM -4:00 PM	6:00 PM -7:00 PM	12:00 AM -1:00 AM	9:00 PM- 10:00 PM	*8:00 AM -9:00 AM

***Next day Wednesday, May 19 in Hobart, Australia**

DAY 2 - Wednesday, May 19, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
Conversations on SESSION 2 & 3 with ECOPs (EU/Africa/Oceania)				
12:00 AM - 2:15 AM	3:00 AM - 5:15 AM	9:00 AM - 11:15 AM	6:00 AM - 8:15 AM	5:00 PM - 7:15 PM
Special Event: Coastal Ecosystem Monitoring (Cabo Verde - South Africa collaboration) (Africa)				
5:00 AM - 6:45 AM	8:00 AM - 9:45 AM	2:00 PM - 3:45 PM	11 AM - 12:45 PM	10:00 PM - 11:45PM
SESSION 2b: Equitable Solutions for Coastal Inundations and Sea Level Rise (EU/Africa)				
7:00 AM - 10:00 AM	10:00 AM - 1:00 PM	4:00 PM - 7:00 PM	1:00 PM - 4:00 PM	*12:00 AM- 3:00 AM
NETWORKING SESSION 3 & 4 (Americas) (Contributed Presentations)				
11:00 AM - 1:00 PM	2:00 PM - 4:00 PM	8:00 PM -10:00 PM	5:00 PM - 7:00 PM	*4:00 AM - 6:00 AM
Conversations on Ocean Solutions with ECOPs (Americas/Oceania)				
1:00 PM - 2:00 PM	4:00 PM - 5:00 PM	10:00 PM-11:00 PM	7:00 PM - 8:00 PM	*6:00 AM - 7:00 AM
SESSION 3a: Healthy Ocean – Healthy People (Americas/Oceania)				
2:30 PM - 5:15 PM	5:30 PM - 8:15 PM	11:30 PM - 2:15 AM	8:30 PM - 11:15 PM	*7:30 AM - 10:15 PM
Special Event: Facilitating human wellbeing of marine communities in a conflicted world (Oceania)				
8:00 PM - 10:00 PM	11:00 PM - 1:00 AM	5:00 AM - 7:00 AM	2:00 AM- 4:00 AM	*1:00 PM - 3:00 PM

*** Next day Thursday, May 20 in Hobart, Australia**

DAY 3 - Thursday, May 20, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
Conversations on SESSION 4 & 5 with ECOPs (EU/Africa/Oceania)				
12:00 AM - 2:15 AM	3:00 AM - 5:15 AM	9:00 AM - 11:15 AM	6:00 AM - 8:15 AM	5:00 PM - 7:15 PM
SESSION 3b: Healthy Ocean – Healthy People (EU/Africa)				
5:00 AM - 7:00 AM	8:00 AM - 10:00 AM	2:00 PM - 4:00 PM	11:00 AM-1:00 PM	10:00 PM-12:00 AM
SESSION 4: Marine Circular Bioeconomy: Sustainable Food, Bioenergy, & Biomaterials from the Sea				
8:00 AM - 12:00 PM	11:00 AM - 3:00 PM	5:00 PM - 9:00 PM	2:00 PM -6:00 PM	*1:00 AM - 5:00 AM
SESSION 5a: Harnessing Innovation to Accelerate Ocean Solutions (Americas)				
12:05 PM - 4:00 PM	3:00 PM - 7:00 PM	9:00 PM -1:00 AM	6:00 PM - 10:00 PM	*5:00 AM - 9:00 AM
SESSION 6: A Global Ecosystem for Ocean Solutions (GEOS)				
4:05 PM - 6:05 PM	7:05 PM - 9:05 PM	1:05 AM - 3:05 AM	10:05 PM-12:05 AM	*9:05 AM- 11:05 AM
Special Event: Ocean solutions: what is needed for success in Tasmania?				
7:00 PM - 10:00 PM	10:00 PM - 1:00 AM	4:00 AM - 7:00 AM	1:00 AM - 4:00 AM	*12:00 PM - 3:00 PM

*** Next day Friday, May 21 in Hobart, Australia**

DAY 4 - Friday, May 21, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
SESSION 5b: Harnessing Innovation to Accelerate Ocean Solutions (EU/Africa)				
12:00 AM - 1:30 AM	3:00 AM - 4:30 AM	9:00 AM - 10:30 AM	6:00 AM - 7:30 AM	5:00 PM - 6:30 PM
Special Event: Climate Policy for Ocean Solutions, Looking Towards COP26 (EU/Africa/Americas)				
7:30 AM - 9:00 AM	10:30 AM - 12:00 PM	4:30 PM - 6:00 PM	1:30 PM - 3:00 PM	*12:30 AM- 2:00 AM
Special Event: UC San Diego Triton Innovation Challenge (Americas)				
10:00 AM- 12:30 PM	1:00 PM - 3:30 PM	7:00 PM - 9:30 PM	4:00 PM - 6:30 PM	*3:00 AM - 5:30 AM
NETWORKING SESSION 5 & 6 (Americas) (Contributed Presentations)				
1:00 PM - 3:00 PM	4:00 PM - 6:00 PM	10:00 PM-12:00 AM	7:00 PM - 9:00 PM	*6:00 AM - 8:00 AM

*** Next day Saturday, May 22 in Hobart, Australia**

May 18, 7:00 AM -7:30 AM PST

Opening Ceremony & Panel

Margaret Leinen
Director
Scripps Institution of Oceanography

Susan Lozier
Dean, College of Sciences,
Georgia Tech
President of AGU

Peter de Menocal
President & Director
Woods Hole Oceanographic
Institution

Emanuele Di Lorenzo
Chairman Ocean Visions
Director, Ocean Science & Engineering,
Georgia Tech

Erin Satterthwaite
Co-Founder, ECOP CalCOFI
Coordinator
Scripps Institution of Oceanography

Brad Ack
Executive Director & Chief Innovation
Officer
Ocean Visions Inc

Free Registration - https://www.oceanvisions.org/summit-2021

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Every Day (see schedule)

ECOP Conversations

EU/Africa/Americas/Oceania

Delphine Lobelle
Europe Host, Co-Organizer
Ocean Visions Summit Postgraduate
Researcher Utrecht University

Erin Satterthwaite
Co-Founder, ECOP CalCOFI
Coordinator
Scripps Institution of Oceanography

Alfredo Giron
Americas Host, André Hoffmann
Fellow, Stanford Center for Ocean
Solutions & World Economic Forum

Louise Gammage
Africa Host, Research Fellow,
University of Cape Town, South
Africa

Valeriya Komyakova
Australia Host, Associate Lecturer
University of Tasmania

Daniel Kleinman
U.S.A. Host, CEO & Founder
Seaworthy Collective

Free Registration - https://www.oceanvisions.org/summit-2021

OCEAN VISIONS SUMMIT
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May 18-21, 2021

SESSION 1: May 18, 7:40-10:40AM PST
Accelerating the Ocean's Power to Sequester CO_2 & Reverse Climate Disruption

Free Registration - https://www.oceanvisions.org/summit-2021

SESSION 1: Accelerating the Ocean's Power to Sequester Carbon & Reverse Climate Disruption

Tuesday, May 18, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
7:40 AM - 10:40 AM	10:40 AM - 1:40 PM	4:40 PM - 7:40 PM	1:40 PM - 4:40 PM	*12:40 AM - 3:40 AM

*** Next day in Hobart, Australia**

Co-chairs: David Koweek (Ocean Visions, Inc. & Stanford COS), Brad Ack (Ocean Visions, Inc.), Lydia Kapsenberg (CEA)

The Ocean has been, and continues to be, dramatically disrupted by warming and acidification caused by decades of greenhouse gas pollution in our atmosphere. Removing this pollution, carbon dioxide removal (CDR), is becoming increasingly understood as an imperative for slowing, and later reversing, climate change. The Ocean holds enormous potential for CDR solutions at the needed global scale given their sheer size and their biological productivity. Thus, The Ocean may play an important role in helping to solve the climate crisis, instead of merely suffering its effects. In this session, we present results and lessons learned from a year-long Ocean Visions-led process of developing road maps for actionable progress on development, testing, and deployment of ocean-based CDR approaches. These road maps address technological, market, policy, and governance barriers to progress and propose paths forward to accelerate ocean-based CDR approaches. The road maps are intended to catalyze increased attention, engagement and action and lead to increased deployment of needed intellectual, physical, institutional and financial resources throughout the global community.

SESSION 2A: Equitable Solutions for Coastal Inundations and Sea Level Rise

Tuesday, May 18, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
11:00 AM - 2:30 PM	2:00 PM - 5:30 PM	8:00 PM -11:30 PM	5:00 PM - 8:30 PM	*4:00 AM - 7:30 AM

*** Next day in Hobart, Australia**

Co-chairs: Mark Merrifield (Scripps), Renee Collini (Mississippi State University), Laura Engeman (Scripps and Sea Grant), A.R. Siders (University of Delaware), Jill Gambill (University of Georgia, Marine Extension and Georgia Sea Grant), Théophile Bongarts (Ocean & Climate Platform), and Emanuele Di Lorenzo (Georgia Tech)

Coastal flooding, inundations, and sea-level rise threaten infrastructure, economies, ecosystems, communities, and cultures. Adapting to these threats will require a holistic, coordinated, multi-sector approach to identify and implement systems-wide transformative solutions. To this end, national task forces are developing to link experts from numerous fields with one another and with coastal communities to facilitate knowledge exchange, promote cross-sector collaborations that meet local needs, and pursue optimistic visions for adaptation. Building on the Ocean Visions coastal solutions scoping workshop, this session will convene potential United States task force members from a wide range of sectors (e.g., insurance, engineering, social and physical sciences, humanities, journalists) towards establishing a national pilot program to implement a "Shared Roadmap for Equitable Coastal Solutions to Climate". Coastal community leaders will meet with breakout groups to discuss their most pressing needs, and participants will develop an agenda with priority actions for the task force and a vision for an adaptable coast.

SESSION 2B: Equitable Solutions for Coastal Inundations and Sea Level Rise

Wednesday, May 19, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
7:00 AM - 10:00 AM	10:00 AM - 1:00 PM	4:00 PM - 7:00 PM	1:00 PM - 4:00 PM	*12:00 AM- 3:00 AM

*** Next day in Hobart, Australia**

Co-chairs: Mark Merrifield (Scripps), Renee Collini (Mississippi State University), Laura Engeman (Scripps and Sea Grant), A.R. Siders (University of Delaware), Jill Gambill (University of Georgia, Marine Extension and Georgia Sea Grant), Théophile Bongarts (Ocean & Climate Platform), and Emanuele Di Lorenzo (Georgia Tech)

Coastal flooding, inundations, and sea-level rise threaten infrastructure, economies, ecosystems, communities, and cultures. Adapting to these threats will require a holistic, coordinated, multi-sector approach to identify and implement systems-wide transformative solutions. The Sea'ties initiative aims to identify and implement adaptation solutions and responses to climate change, based on scientific synthesis, peer-to-peer learning, and network sharing, in five regions (Pacific, North & West Africa, US West Coast, and Europe). It will mainly focus on medium-sized cities and explore solutions and responses tailored to each regional context: hard & soft responses, nature-based solutions, relocation, and spatial recomposition. Based on scientific analysis and with the support of local referents, the project will mobilize a wide range of stakeholders and enable local experiences to be collected, analyzed, and shared. The main objectives are 1) to identify and promote key factors of success to accelerate the implementation of the Paris Agreement, and 2) to create and animate a dynamic network of medium-sized coastal cities.

SESSION 3A: Healthy Ocean – Healthy People

Wednesday, May 19, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
2:30 PM - 5:15 PM	5:30 PM - 8:15 PM	11:30 PM - 2:15 AM	8:30 PM - 11:15 PM	*7:30 AM - 10:15 PM

*** Next day in Hobart, Australia**

Co-chairs: (3a) Fio Micheli, Michelle Tigchelaar and Collin Closek (COS), Jack Gilbert (Scripps), Anupa Asokan (Surfrider Foundation), Gretta Pecl (Centre for Marine Socioecology, Univ. of Tasmania), Sarah Allard (Department of Pediatrics and Scripps Institution of Oceanography, UCSD), Gertrude Ecklu-Mensah (Health Sciences, UCSD), Manu Prakash (Stanford University), Susanne Sokolow (Stanford University),

There is broad recognition that oceans bring wealth, through fisheries, aquaculture, minerals, energy, commerce, tourism, and more. They are a global, irreplaceable source of income and livelihood. There is an increasing awareness that oceans are also critical to health and well-being. This session has the goal of identifying opportunities and levers for promoting healthy ocean-healthy people. Through presentations, public participation and input, and small-group sessions we aim to: highlight key links between ocean and human health; showcase innovation in this space; identify pressure points, where action has the greatest potential to deliver solutions.

SESSION 3B: Healthy Ocean – Healthy People

Thursday, May 20, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
5:00 AM - 7:00 AM	8:00 AM - 10:00 AM	2:00 PM - 4:00 PM	11:00 AM-1:00 PM	10:00 PM-12:00 AM

Co-chairs: (3b) Louise Gammage (University of Cape Town), Delphine Lobelle (Utrecht University), Amanda Schadeberg (Wageningen University and Research Center), Nina Rivers (Nelson Mandela Metropolitan University), Marieka Norton (University of Cape Town), Jennifer Beckensteiner (University of Bretagne)

There is broad recognition that oceans bring wealth, through fisheries, aquaculture, minerals, energy, commerce, tourism, and more. They are a global, irreplaceable source of income and livelihood. However, there is an increasing awareness that oceans are also critical to human health and well-being. This session aims to identify opportunities and levers for promoting 'healthy oceans-healthy people'. Here, we continue the conversation started in the US hub's Session 3 by taking a closer look at some of the challenges and opportunities related to the intersection of oceans and human health. During three simultaneous breakouts, namely ocean plastic solutions, connecting healthy oceans to human well-being and promoting sustainable fisheries, we ask the panellists and participants to provide multi-sector, forward-thinking transdisciplinary perspectives on ocean solutions in an interactive discussion.

SESSION 4. Marine Circular Bioeconomy: Sustainable Food, Bioenergy, and Biomaterials from the Sea

Thursday, May 20, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
8:00 AM - 12:00 PM	11:00 AM - 3:00 PM	5:00 PM - 9:00 PM	2:00 PM -6:00 PM	*1:00 AM - 5:00 AM

*** Next day in Hobart, Australia**

Co-Chairs: David Babson (ARPA-E), Halley Froehlich (UC Santa Barbara), Chuck Greene (Cornell University), Steve Mayfield (UC San Diego), Celina Scott-Buechler (Cornell University)

The primary goal of this session is to explore the potential of marine aquaculture for sustainably intensifying global food production. All forms of marine aquaculture will be considered, from micro- and macroalgae to fin- and shellfish. Sustainability issues to be quantified relative to the current global food production system will include reductions in greenhouse gases emissions, energy use, arable land footprint, eutrophication, and biodiversity loss. The secondary objectives of the session will be to consider the role of marine aquaculture in the coastal circular bioeconomy, with a special focus on the recycling of materials in algae-based wastewater treatment and the co-production of bioenergy and biomaterials. Bioenergy uses include microalgae-based liquid fuels for the transportation sector and macroalgae-based liquid and solid fuels for the transportation and power sectors, respectively. Biomaterial uses include microalgae-based petroleum product substitutes, such as plastics, foams, and carbon fiber. Possible Themes include the future of aquaculture and food from the sea, the future of algal biomaterials and energy from the sea, finding the ocean's sweet spot in the climate, energy, food, and water nexus.

SESSION 5A: Harnessing Innovation to Accelerate Ocean Solutions

Thursday, May 20, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
12:05 PM - 4:00 PM	3:00 PM - 7:00 PM	9:00 PM -1:00 AM	6:00 PM - 10:00 PM	*5:00 AM - 9:00 AM

*** Next day in Hobart, Australia**

Co-chairs: Gwen Nero (Scripps), Millicent Pitts (Ocean Exchange), Miguel Granier (OneFive), Shally Shanker (AiiMs), Ann Carpenter (Braid Theory), Brad Ack (Ocean Visions, Inc.)

It is encouraging to see the amount of science and engineering innovation developing through university and research institutions. Given the great challenges of ocean health, climate disruption, coastal resiliency, sustainable energy/food/materials, and the ocean/human health nexus, how do we accelerate the final development of solutions that can be financed, scaled, and deployed for maximum positive impact? Join Session 5 to learn and be inspired. Our first panel will describe the paths from research to deployment with tips and tools for success. Following will be panel two with entrepreneurs whose solutions have moved from institution to marketplace. Finally, we will bring investors and philanthropists on stage to describe their view of philanthropy and impact/ traditional investment scenarios for financing scalable solutions.

SESSION 5B: Harnessing Innovation to Accelerate Ocean Solutions

Friday, May 21, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
12:00 AM - 1:30 AM	3:00 AM - 4:30 AM	9:00 AM - 10:30 AM	6:00 AM - 7:30 AM	5:00 PM - 6:30 PM

Co-chairs: Alexis Grosskopf and Stéphanie Canac (OceanHub Africa)

It is encouraging to see the amount of science and engineering innovation developing through university and research institutions. Given the great challenges of ocean health, climate disruption, coastal resiliency, sustainable energy/food/materials, and the ocean/human health nexus, how do we accelerate the final development of solutions that can be financed, scaled, and deployed for maximum positive impact? Join Session 5 to learn and be inspired. We will showcase innovators from Africa and host three discussion groups on Ocean and Global Warming, Ocean Pollution, and Ocean Overexploitation.

SESSION 6: A Global Ecosystem for Ocean Solutions (GEOS)

Thursday, May 20, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
4:05 PM - 6:05 PM	7:05 PM - 9:05 PM	1:05 AM - 3:05 AM	10:05 PM-12:05 AM	*9:05 AM- 11:05 AM

*** Next day in Hobart, Australia**

Co-chairs: Anna Zivian (Ocean Conservancy), Erin Satterthwaite (California Sea Grant & Scripps/UCSD), Karen Evans (CSIRO)

To overcome the persistent gap between research and solutions, we are establishing a Global Ecosystem for Ocean Solutions (GEOS) in support of the UN Ocean Decade. The mission of GEOS is to "establish a vibrant, global ocean solutions community of researchers, innovators, investors, decision-makers and other stakeholders to co-design and co-deploy equitable, durable, and scalable ocean-based solutions for climate change and ocean grand challenges". The GEOS strategy for action is (1) to deploy new multi-sector processes that enable the generation and transition of scientific knowledge into co-developed ocean solutions (2) to address ocean grand challenges in climate change and the ocean that require system level (e.g. multi-sector and interdisciplinary) use-inspired research and action. This session will be devoted to the development of the implementation phase of GEOS. You can learn more about GEOS here: http://oceansolutions.org

EVENT: Coastal Ecosystem Monitoring in Cabo Verde & South Africa

Wednesday, May 19, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
5:00 AM - 6:45 AM	8:00 AM - 9:45 AM	2:00 PM - 3:45 PM	11 AM - 12:45 PM	10:00 PM - 11:45PM

Co-organizers: Corrine Almeida (UTA), Maya Pfaff (DEA& UCT), Björn Fiedler (GEOMAR), Vito Ramos (OSCM)

This event will bring together experts and projects that are engaged in systematic ecosystem observations in order to improve local knowledge about the marine coastal environment and the development of coastal solutions for South Africa, Cabo Verde, and similar regions. We will share experience towards establishing standards for coastal monitoring programs. How to best develop human capacities at the stakeholder level, strengthening university programs and furthering institutional capacities while improving data accessibility? What are good training schemes for coastal communities and stakeholders to improve observation capacity as well as the use of data and data projects for the benefit of different sectors. Are existing projects ready to become by co-creation methods the cornerstones for coastal ecosystem monitoring programs that can be operated by local investigators and technicians on their own and can be expanded to other regions.

EVENT: Facilitating human wellbeing of marine communities in a conflicted world

Wednesday, May 19, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
8:00 PM - 10:00 PM	11:00 PM - 1:00 AM	5:00 AM - 7:00 AM	2:00 AM- 4:00 AM	*1:00 PM - 3:00 PM

*** Next day in Hobart, Australia**

Co-organizers: Gretta Pecl (Centre for Marine Socioecology, Univ. of Tasmania), Maraa Fudge (Univ. of Tasmania)

Oceans underpin marine communities around the world, supporting cultures, fisheries, aquaculture, minerals, energy, commerce, tourism, and more. Oceans are also critical to health and well-being. This session builds of the broader Ocean Solutions summit theme of 'Healthy Ocean-Healthy People' to unpack what this means for the island state of Tasmania, and surrounding regions, with the goal of identifying opportunities and levers for promoting healthy ocean-healthy people in a local on-the-ground context. Through e-posters, lightning talks and Q&A panels this session aims to highlight what is needed at a local scale to facilitate and strengthen the links between ocean and human health, and help identify what actions have the greatest potential to deliver solutions.

EVENT: Ocean solutions: what is needed for success in Tasmania?

Thursday, May 20, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
7:00 PM - 10:00 PM	10:00 PM - 1:00 AM	4:00 AM - 7:00 AM	1:00 AM - 4:00 AM	*12:00 PM - 3:00 PM

*** Next day in Hobart, Australia**

Co-organizers: Karen Evans (CSIRO), Valeriya Komyakova (Univ. of Tasmania)

Following on from the special event introducing the Global Ecosystem for Ocean Solutions (GEOS) program, this session comprising e-posters, presentations, and discussion groups will focus on the elements needed to develop, design, and deliver solutions to ocean challenges with a focus on Tasmania. What is needed to bring ocean stakeholders including decision-makers and expert knowledge holders across research, business, industry, civil society, and community groups together to identify and develop pathways that will facilitate practical solutions towards sustainability that are applicable to the Tasmanian context? What is needed to then scale and tailor those solutions to regions beyond Tasmania

EVENT: Climate Policy for Ocean Solutions, Looking Towards COP26

Friday, May 21, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
7:30 AM - 9:00 AM	10:30 AM - 12:00 PM	4:30 PM - 6:00 PM	1:30 PM - 3:00 PM	*12:30 AM- 2:00 AM

*** Next day in Hobart, Australia**

Co-Organizers: Kelly Swiech
Panelists: Dr. Margaret Leinen, California Senator pro Tem Toni Atkins, Dr. Gideon Henderson

One of the most meaningful ways we can combat climate impacts, and accelerate the implementation of ocean solutions, is through effective policy. It is critical that policy decisions be rooted in science at local, national and international levels. Observing programs provide long-term data which allows us to understand the rate at which changes are occurring and the impacts they may have on human health, safety, ecosystems, and the overall functioning of earth systems. In this session, we will explore key contributions to ocean, earth, and atmospheric observing systems and discuss why these observations are critical to informing climate policy. In addition, we will discuss the importance of collaborations between academia and policy, and how the UNFCCC COP26 climate conference can accelerate the implementation of ocean solutions through international collaborations and policy.

EVENT: Un Diego Triton Innovation Challenge

Friday, May 21, 2021

San Diego (PDT)	New York (EST)	Paris (CEST/CAT)	Mindelo (CVST)	Hobart (AEDT)
10:00 AM- 12:30 PM	1:00 PM - 3:30 PM	7:00 PM - 9:30 PM	4:00 PM - 6:30 PM	*3:00 AM - 5:30 AM

*** Next day in Hobart, Australia**

Co-organizers: Gwen Nero (Scripps), Karen Jensen (Rady School of Management), Dennis Abremski (Institute for the Global Entrepreneur)

From algal farming microbusinesses to sustainably-powered ocean buoys, student and scientist innovators compete for cash prizes before a panel of investment professionals and the public. The Triton Innovation Challenge, now in its ninth year, is a business competition focused on fostering creativity and bringing to the spotlight commercially promising, environmentally focused technologies generated by the finest minds at the University of California San Diego. Supported through the generosity of The William and Kathryn Scripps Family Foundation Inc., the program is presented through a partnership of the Rady School of Management, Scripps Institution of Oceanography, and the Jacobs School of Engineering.

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ECOP S1: May 18, 9:30-10:30AM CEST/CAT
Accelerating the Ocean's Power to Sequester CO_2 & Reverse Climate Disruption

Early Career Ocean Professionals (ECOP) Conversations

Tackling ocean acidification - Integrating social sciences into ocean acidification research

Kim Currie
National Institute of Water and Atmospheric Research
Panelist

Habibeh Hashemi
Otago University
Chair

Wayne Dillon
Otago University
Chair

Strengthening CDR and Ocean Acidification Action: a governance, social and capacity issue

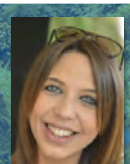
Peter Swarzenski
International Atomic Energy Agency
Panelist

Rebecca Zitoun
Royal Netherlands Institute of Sea Research
Chair

Engaging CDR solutions from a natural sciences and technology perspective

Héctor Marin Moreno
Norwegian Geotechnical Institute
Panelist

James Kairo
Kenya Marine & Fisheries Research Institute
Panelist



Maria De La Fuente
Bruxelles University
Chair

Stephanie Okeyo
Under the Microscope
Chair

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ECOP S2: May 19, 9:00-10:00AM CEST/CAT
Solutions for Coastal Inundations and Sea Level Rise

Early Career Ocean Professionals (ECOP) Conversations

Theme 1: Bridging the gap between natural sciences and ocean governance related to sea level rise

Erwin Lambert
Royal Netherlands Meteorological Institute
Panelist

Mariana de Botton Falcón
Utrecht University
Chair

Theme 2: Ocean literacy and education around coastal processes

Oludare Adeogun
Nigerian Institute for Oceanography and Marine Research
Panelist

Adedeji Adeyemo
Nigerian Institute for Oceanography and Marine Research
Chair

Theme 3: Creating sustainable coastal livelihoods from a social science lens

Jeff Kinch
Principal National Fisheries College Kavieng
Panelist

Rachel Sapery James
R&A Consultants PNG
Chair

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ECOP S3: May 19, 10:15-11:15AM CEST/CAT
Healthy Ocean – Healthy People

Early Career Ocean Professionals (ECOP) Conversations

Ocean Plastic Solutions – An open source multi-stakeholder decision-making support tool: The Global Partnership on Marine Litter (GPML) Digital Platform

Heidi Savelli-Soderberg
UNEP
Panelist

Audrey Hasson
GEO Blue Planet
EU
Chair

Promoting Sustainable Fisheries and inclusivity of women in this sphere

Nancy Iraba
Aqua-Farms Organization
Panelist

Josephine Edward
Lady Marine
Consultancy Firm
Chair

Connecting healthy oceans to human wellbeing: Interweaving indigenous knowledge and ocean sciences to improve decision-making, stakeholder engagement and human wellbeing

Heini Unwin
Cawthron Institute
Panelist

Nomvula Mpungose
University of Cape Town
Chair

Maree Fudge
University of Tasmania
Chair

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ECOP S4: May 20, 09:00-10:00AM CEST/CAT
Marine Circular Bioeconomy: Sustainable Food, Bioenergy & Biomaterials

Early Career Ocean Professionals (ECOP) Conversations

Theme 1:
Sustainable fish stock and promoting a business model for equitable and sustainable small-scale fishing communities

Heidi Alleway
The Nature Conservancy
Panelist

Kolisa Yola Sinyanya
University of Cape Town
Chair

Theme 2:
Algal biomaterial, bioenergy and their environmental impact

Caroline Hooft-Slootweg
Kelp Blue
Panelist

Nurul Rabitah Daud
University Teknologi MARA
Chair

Theme 3:
Integrating political sciences and ocean governance to support marine circular economy

Marcus Haward Institute for Marine and Antarctic Studies
Panelist

Paulo Lima Veiga
Minister of Maritime Economy of Cape Verde
Panelist

Laura Gómez Navarro
Utrecht University
Chair

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ECOP S5: May 20, 10:15-11:15AM CEST/CAT
Harnessing Innovation to Accelerate Ocean Solutions

Early Career Ocean Professionals (ECOP) Conversations

Theme 1:
Prevention rather than cure: Combining satellites, biology and engineering to remove anthropogenic debris from rivers before they enter the ocean

Karsten Hirsch
Plastic Fischer
Panelist

Lauren Biermann
Plymouth Marine Laboratory
Chair

Theme 2:
Green marine engineering: lessons from nature in the design of artificial infrastructure

Ido Sella
ECOncrete Tech LTD
Panelist

Valeriya Komyakova
Institute of Marine & Antarctic Studies &Center for Marine Socioecology
Chair

Theme 3:
Finding a balance between innovations, economics and environmental impacts

Roy van Ballegooyen
WSP Maritime Africa
Panelist

Liisa Shangheta
University of Cape Town
Chair

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May 18th, 3:00pm - 4:00pm PDT
May 19th, 1:00pm - 2:00pm PDT

Conversations on Ocean Solutions with Early Career Ocean Professionals (ECOPs)

Alexandra Davis
University of Alberta, Canada
Lead facilitator

Alfredo Giron
Stanford Center for Ocean Solutions
Lead facilitator

Leopoldo Gerhardinger
University of São Paulo, Brazil
Lead facilitator

Emily Parks
University of San Diego
Lead facilitator

Kelly Swiech
Scripps Institution of Oceanography
Lead facilitator

Ali Burgos
UC Santa Barbara
Lead facilitator

Daniel Kleinman
Seaworthy Collective
Lead facilitator

Florybeth La Valle
CA Sea Grant & Scripps Institution of Oceanography
Lead facilitator

Angee Doerr
Oregon Sea Grant & Oregon State University
Lead facilitator

Erin Satterthwaite
CA Sea Grant & Scripps Institution of Oceanography
Lead facilitator

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Special Thanks to the Summit Staff:

Emanuele Di Lorenzo
Georgia Tech & Ocean Visions

Delphine Lobelle
Utrecht University & ECOPs

Kelly Swiech
Scripps Institution of Oceanography

Jessica Keith
Ocean Visions

- AGU Team -

Victoria Forlini
Mark Shimamoto
Heather Nalley
Rebecca Orens
Nicole Oliphant
Amy Bocian

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