

A Practitioner-led Workshop to Advance Resilience to Sea Level Rise: Leading Practices and Current Challenges

February 14, 15, 16

Africa, Caribbean, Central America, Europe, Middle East, North America, South America

February 22, 23, 24

Asia, Oceania, Pacific Islands

1. Science – Shared challenges for practitioners

Sea Level Science Grapples with Uncertainty and Usability

Improved transdisciplinary approaches are needed to ensure that research on rising seas is useful for planning in coastal communities.

'Uncertainty is not our friend': Scientists are still struggling to understand the sea level risks posed by Antarctica

Two studies find the Paris climate goals could significantly reduce sea level rise by 2100 — but also show researchers still grappling with how climate change will alter the world's largest ice sheet

Quit Worrying About Uncertainty in Sea Level Projections

Emphasizing uncertainty in model projections of long-term sea level rise is a misguided approach. Instead, we should focus on communicating what we do know while improving model confidence.

2. Planning and Adaptation Action

**Sea level rise warning:
Alarming UK maps show areas
to be hit by extreme risk
of flooding**

**African Heritage Sites
threatened by coastal
flooding and erosion as
sea-level rise accelerates**

**CLIMATE CHANGE IS STRETCHING
MUMBAI TO ITS LIMIT**

Facing sea-level rise, flooding, and landslides, the city's residents are finding resilience—because they have little other choice.

**Protect or Retreat: Rising Seas
Threaten Canada's Atlantic
and Pacific Coasts**

3. Communications – Making the case for action

**Charleston's sea wall decision
pushed back just as advocates
and detractors prepared for vote**

**Forced retreat: one New Zealand
town's fate highlights coming
fight over climate adaptation**

**Del Mar will stand its ground
against managed retreat**

**Research in Tunisia Explores
Women Pastoralists' Roles in
Climate Change Adaptation**

“Sea Level 2022: Advancing Science, Connecting Society”



Sea Level 2022 Conference
Advancing Science, Connecting Society

12-16 July 2022, Singapore

Conference website: www.sealevelconference.org



EARTH OBSERVATORY OF SINGAPORE



Ministry of Sustainability and the Environment
SINGAPORE



METEOROLOGICAL SERVICE SINGAPORE
Centre for Climate Research Singapore



RIMES

Day 1: Scientist and Practitioner Perspectives

Day 2: Science Update, including Land Ice Contributions

Day 3: Practitioner Case Studies and Perspectives

Day 4: Regional Sea Levels and Coastal Variability

Day 5: Looking ahead; The Practitioner/Scientist Interface

<https://www.sealevelconference.org/>
TRAVEL FUNDING GRANTS WILL BE AVAILABLE

“Sea Level 2022: Advancing Science, **Connecting Society**”



WCRP
World Climate Research Programme

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CLIVAR **EARTH OBSERVATORY OF SINGAPORE** **Ministry of Sustainability and the Environment SINGAPORE** **METEOROLOGICAL SERVICE SINGAPORE** **RIMES**

Day 1: Scientist and Practitioner Perspectives

Day 2: Science Update, including Land Ice Contributions

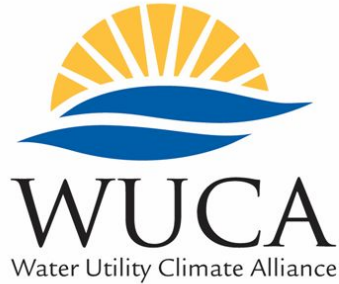
Day 3: Practitioner Case Studies and Perspectives - SEEKING SPEAKERS

Day 4: Regional Sea Levels and Coastal Variability

Day 5: Looking ahead; The Practitioner/Scientist Interface

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“Community of Practice” for Sea Level Rise Adaptation?



Water and Wastewater Utilities
(founded 2008)

SOUTHEAST FLORIDA
REGIONAL COMPACT
CLIMATE
CHANGE



County Government with Partners
(founded 2010)



Local Government with Partners
(founded 2018)

“Community of Practice” for Sea Level Rise Adaptation?

- *We don't know of one at a global scale.*
- *Do you? If so please tell us about it.*
- *Do you think we need one?*
- *And if one existed, would you participate or help lead it?*

We'll ask these questions and others at the end of the workshop.

Organizing Committee

Co-Chairs

David Behar, San Francisco Public Utilities Commission, United States

Daniella Hirschfeld, Utah State University, United States

Atlantic Subcommittee

Kwasi Appeaning Addo, University of Ghana, Ghana

Jochen Hinkel, Global Climate Forum, Germany

Hilary Lohmann, Department of Planning and Natural Resources, U.S. Virgin Islands

Robert Nicholls, University of East Anglia, United Kingdom

Gordon Smith, Dept of Municipal Affairs and Housing, Province of Nova Scotia, Canada

Pacific Subcommittee

Lara Clarke, Planning and Risk Management, GNS Science, New Zealand

Miguel Esteban, Waseda University, Japan

Dave Hanslow, Dept of Planning, Industry, and Environment, New South Wales, Australia

Munsur Rahman, Bangladesh University of Engineering and Technology, Bangladesh

Facilitators: Jochen Hinkel, Gordon Smith, Daniella Hirschfeld, Ray Boyle, David Behar, Julie Coleman

Workshop Managers: Emily Jack-Scott, Ray Boyle



Goals & Objectives

- Develop competencies
- Share knowledge
- Build community



Nature of the Workshop

A Practitioner-led Workshop to Advance Resilience to Sea Level Rise: Leading Practices and Current Challenges

Flow of the Workshop

Day 1: Science

Understand and translating sea-level rise science for resilience

Day 2: Planning + Action

Learning and sharing about planning processes and adaptation actions for sea-level rise

Day 3: Communicating

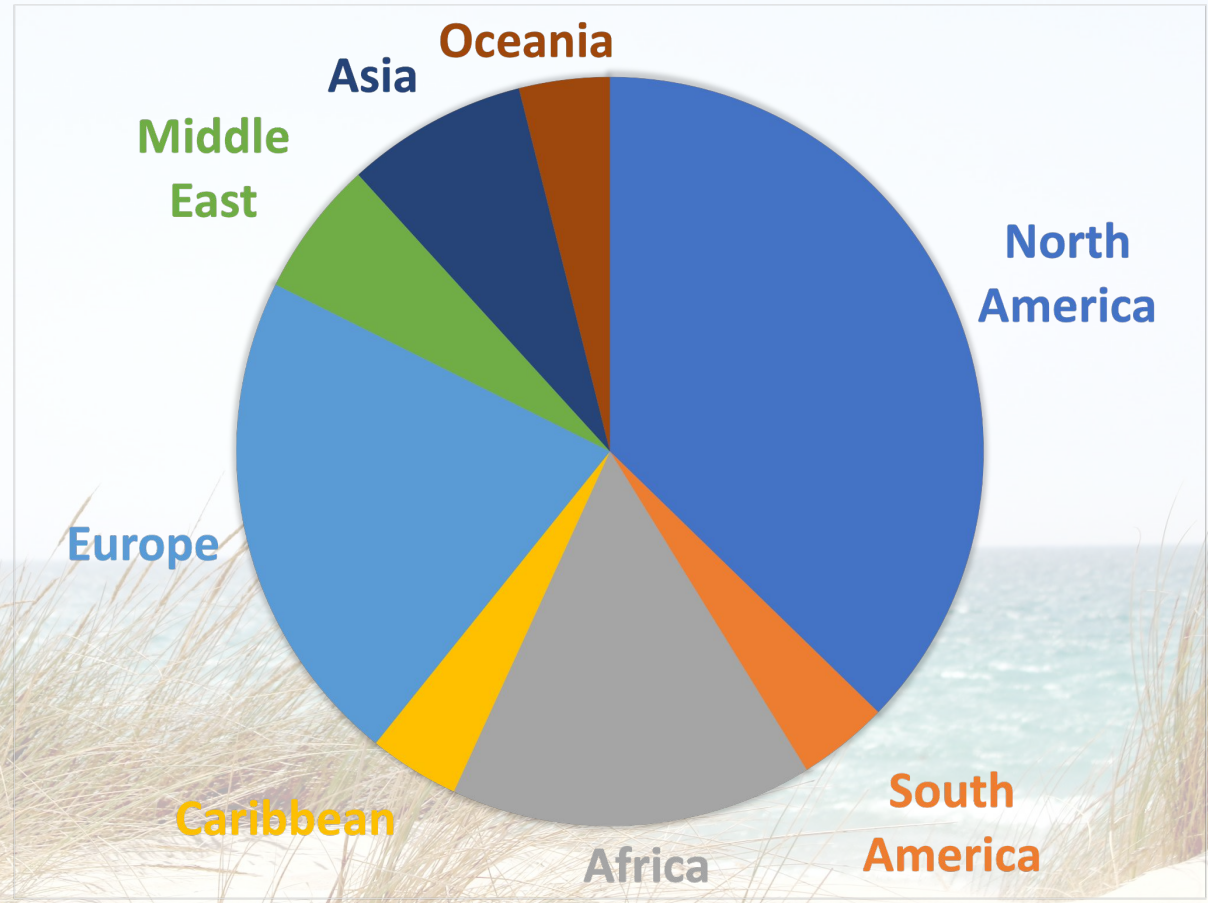
Developing skills to communicate challenges and build support with stakeholders

Flow of the Day

| | |
|---------------------------|--------|
| Welcome Session | 20 min |
| Lightning Talks | 25 min |
| Miro Boards | 10 min |
| Breakout Group Discussion | 80 min |
| Interactive Reflections | 5 min |
| Optional Networking | 30 min |

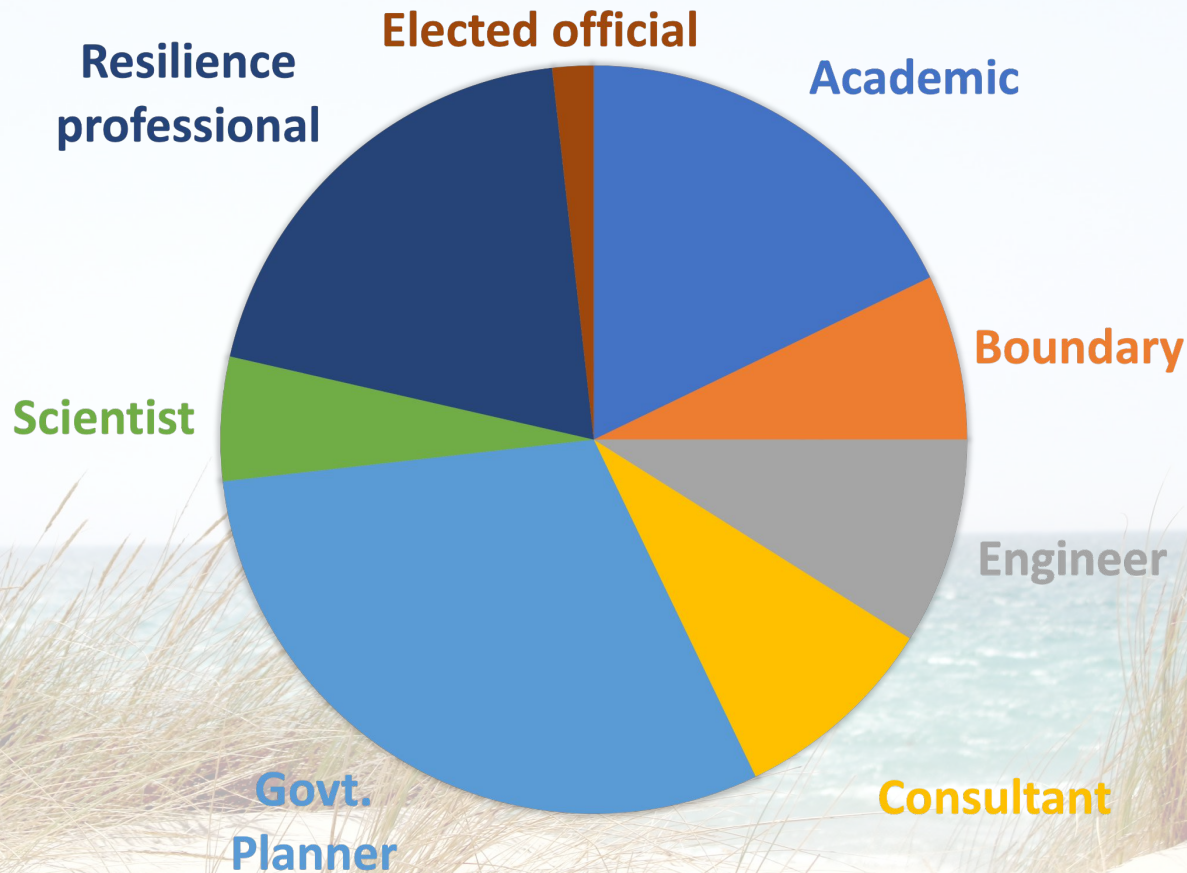


Participant Snapshot Geography



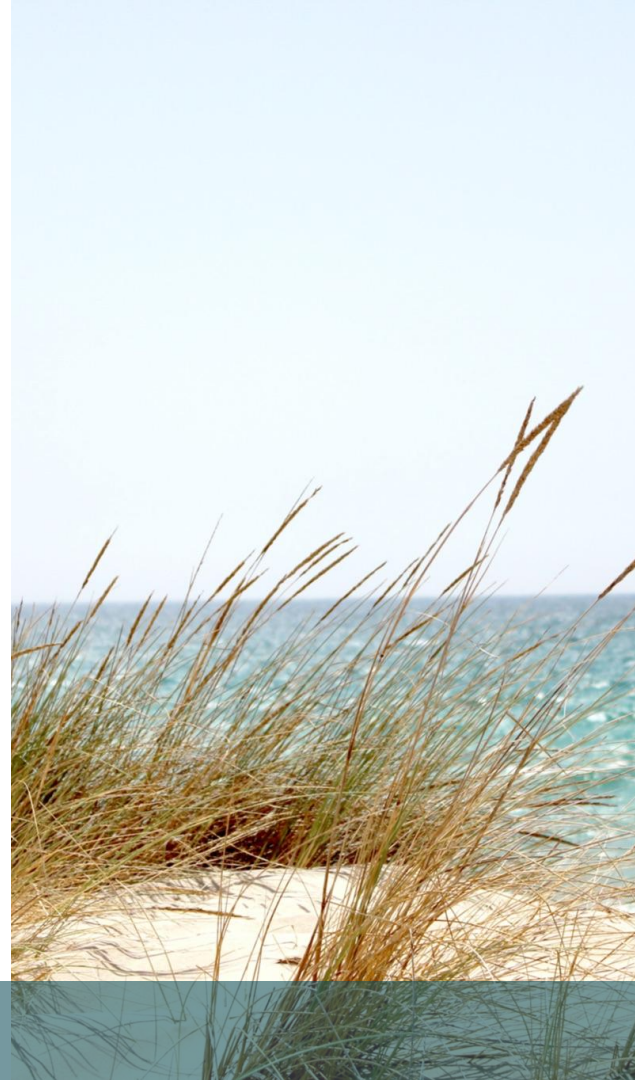
Participant Snapshot

Professional Life



Logistics

- Rename yourself to include employer/affiliation and gender pronouns
- Turn on your camera
- Gallery vs. speaker view
- Recording! Why?
- For technical assistance send a private chat in Zoom to AGCI's Emily Jack-Scott or Alyson Wright



Ground Rules

- Be respectful and inclusive.
- Find ways to support the work & ideas of others.
- Be persistent and patient.
- Share our time & space together. Actively listen, contribute, and learn!

