



Inaugural International Workshop on Intermittent Estuaries in a Changing Climate | 15-18th of June 2021

Day 1 - Program

Session I - Key drivers of land-sea connectivity and conceptual/numerical models of inlet behaviour

Sydney 16th of June	Cape Town/ Paris 15th of June	LA 15th of June	Presenter	Organization	Title of talk
06:30:00	22:30:00	13:30:00	Organisers	-	Welcome and workshop opening
06:40:00	22:40:00	13:40:00	Xavier Bertins	Université de La Rochelle, France	The processes controlling the closure of shallow inlets
06:55:00	22:55:00	13:55:00	Jaap Nienhuis	Coastal Morphodynamics Lab, Utrecht University, Netherlands	Models for inlet formation and migration on storms and geologic timescales
07:10:00	23:10:00	14:10:00	Giovanni Cecconi	The Venice Resilience Lab, Wigwam Network, Italy	Venice lagoon Morphological and Biological Consequences of sea-level rise associated with the construction of inlet breakwaters and mobile flood-barriers
07:25:00	23:25:00	14:25:00	Andre Theron	Stellenbosch University, South Africa	Methods for predicting berm height at South African Temporarily Open/Closed Estuaries.
07:40:00	23:40:00	14:40:00	John Largier	Coastal & Marine Sciences Institute, University of California Davis, USA	Hydrological responses to closure in Californian estuaries: water levels, stratification, and water quality
07:55:00	23:55:00	14:55:00	Dane K. Behrens & Mara Orescanin	Dane: Environmental Science Associates (ESA); Mara: Naval Postgraduate School, CA, USA	Episodic closure patterns of intermittent estuaries and their drivers in California.
08:10:00	00:10:00	15:10:00	Cheryl Doughty	University of California, Los Angeles, USA	Regional adaptation planning of future habitat changes and vulnerability in intermittent estuaries
08:25:00	00:25:00	15:25:00	Megan Williams	Universidad Técnica Federico Santa María, Chile	Physics of intermittent estuaries in Chile
08:40:00	00:40:00	15:40:00	Sarah McSweeney	University of Melbourne, Australia	The global distribution of intermittent estuaries and drivers of distribution
08:55:00	00:55:00	15:55:00	Charitha Pattiaratchi	University of Western Australia	The seasonal closure of tidal inlets: Wilson Inlet - A case study
09:10:00	01:10:00	16:10:00	Organisers	-	Day 1 close

Day 2 - Program

Sessions II & III- Physical and biological responses of intermittent estuaries to a changing climate

Sydney 17th of June	Cape Town/ Paris 16th of June	LA 16th of June	Presenter	Organization	Title of talk
06:30:00	22:30:00	13:30:00	Organisers	-	Day 2 opening
06:35:00	22:35:00	13:35:00	Trang Duong	University of Twente and IHE Delft Institute for Water Education, Netherlands	Modelling climate change impacts on intermittently closing inlets
06:50:00	22:50:00	13:50:00	Janine Adams	Nelson Mandela University, South Africa	Response of blue carbon habitats to climate change in closed estuaries
07:05:00	23:05:00	14:05:00	Steven Weerts, Stephen Lamberth	CSIR & National Department of Forestry, Fisheries and Environment, South Africa	Fish responses at regional time-scales to mouth state - A South African case study
07:20:00	23:20:00	14:20:00	Eric Stein	Biology Department, S. Ca. Coastal Water Research Project, USA	Regional and local work on climate change effects on coastal wetlands
07:35:00	23:35:00	14:35:00	Peter Scanes & Elliot Scanes	Peter: NSW Environment, Energy and Science; Elliot: University of Technology, Sydney; Australia	Lessons from 15+ years of monitoring of 50+ ICOLs in NSW: How form and function affect ecology and early signals attributable to climate change
07:50:00	23:50:00	14:50:00	Karen Thorne and Kevin Buffington	USGS Western Ecological Research Center, USA	Sea level rise effects and biological responses
08:05:00	00:05:00	15:05:00	Lara van Niekerk	CSIR, South Africa	Vulnerability of South Africa's Estuaries to Climate Change

Session IV - Innovative change detecting methods of inlet behaviour - satellite imagery, drones, and stationary systems

08:20:00	00:20:00	15:20:00	Valentin Heimhuber	UNSW Water Research Laboratory, Australia	InletTracker: A new tool for monitoring intermittent coastal inlets from public satellite data.
08:35:00	00:35:00	15:35:00	Chris Drummond	UNSW Water Research Laboratory, Australia	Innovative coastal entrance monitoring using drones, smart cameras and satellites
08:50:00	00:50:00	15:50:00	Karina Alvarez and Sarah Rose	NASA - JPL, USA	On the use of Sentinel-2 & Landsat 8 satellite data for IOCE monitoring
09:05:00	01:05:00	16:05:00	Mitchell Harley	UNSW Water Research Laboratory, Australia	CoastSnap: a global citizen science project to monitor changing coastlines
09:20:00	01:20:00	16:20:00	Organisers	-	Day 2 closing

Day 3 - Program

Sydney 18th of June	Cape Town 17th of June	LA 17th of June	Presenter	Organization	Title of talk
06:30:00	22:30:00	13:30:00	Organisers	-	Day 3 opening (continuation of Part IV)
06:35:00	22:35:00	13:35:00	Eirini Politi	Lagoons for Life Initiative, Brockmann Consult GbmH, Germany	The H2020 CERTO project: operational remote sensing water quality products to suit the continuum of transitional waters

Session V - Policy frameworks, community datasets, and management challenges

06:50:00	22:50:00	13:50:00	Lara van Niekerk, Susan Taljaard, Janine Adams, Stephen Lamberth	CSIR, South Africa	South Africa: National Biodiversity Assessment & Red listing of ecosystems: Condition assessment at regional scale
07:00:00	23:00:00	14:00:00	Vanessa Bowden	The University of Newcastle, Australia	New constructions of denial: climate adaptation in local communities – the case of Lake Macquarie
07:10:00	23:10:00	14:10:00	David Reid	DELWP, Victoria, Australia	A decade of development and implementation of Victoria's Index of Estuary Condition
07:20:00	23:20:00	14:20:00	Angus Ferguson	New South Wales DPIE, Australia	A new resource for managers around form and function of ICOLLs
07:30:00	23:30:00	14:30:00	Greg Woodward	DELWP, Victoria, Australia	Managing Victoria's Estuaries: a policy perspective
07:40:00	23:40:00	14:40:00	Jayden Wooley	CCMA, Victoria, Australia	Estuary management, local challenges and opportunities in southwest Victoria (Australia)
07:50:00	23:50:00	14:50:00	Jorg Imberger	University of Miami, Florida University College, London	"Adaptive Real-Time, Self-Learning, Management of Estuaries and Coastal Waters"
08:00:00	00:00:00	15:00:00	Bronson McPherson; Galen Lewis, Matt Phillips	NSW Manly Hydraulics Laboratory, Australia	ICOLL entrance management and real-time modelling
08:10:00	00:10:00	15:10:00	Will Glamore	UNSW Water Research Laboratory, Australia	Community Expectations versus Ecosystem Management - Lessons Learnt from working in Intermittent Estuaries
08:20:00	00:20:00	15:20:00	Valentin Heimhuber	UNSW Water Research Laboratory, Australia	Climate change in estuaries - state of the science and framework for assessment (a guide for managers) + the EcoThresholds database.

Community discussion and workshop wrap-up

08:30:00	00:30:00	15:30:00	Organisers	-	Summaries of sessions I to V
08:45:00	00:45:00	15:45:00	Community	-	Presentation of community survey results, group discussion and optional community workshop
09:00:00	01:00:00	16:00:00	Organisers	-	Workshop wrap-up: Community position paper. Where to from here? Is there scope for a global forum on IOCEs?