



Program

Oral presentations: Each speaker has a 15-minute time slot including Q&A. Please prepare a 12-minute presentation so that we have a few minutes for discussions afterwards.

Poster presentations: Our poster boards are 30 x 40 inches (76.2 x 101.6 cm) and can be used in landscape or portrait format. Please keep this in mind when preparing your posters.

Tuesday, 17th May 2022	
08:00 – 09:00	Registration
09:00 – 09:30	Opening remarks
09:30 – 10:15	Keynote Lecture: Multi-Hazard Assessments – Moving Beyond Disciplinary Divides. Dr. Michelle (Shelby) Bensi , Department of Civil and Environmental Engineering, University of Maryland, USA
10:15 – 10:45	Coffee break
10:45 – 12:15	Session 1: Applications, Chair: Ivan Haigh
	Talk 1: Julie Carreau: A spatially adaptative multi-resolution generative algorithm: application for urban flood risk assessment Talk 2: Sara Santamaria-Aguilar: Uncertainties in regional coastal flood assessments associated with the variability of hydrographs of extreme events Talk 3: Katherine Serafin: Flood risk transfer as a consequence of climate change and infrastructure modifications along the San Francisquito Creek, California Talk 4: Amrit Shankar Verma: A probabilistic rainfall model to combat leading-edge erosion of wind turbine blades Talk 5: Hal Needham: Recent Innovations for Data-Driven Flood Risk Analysis: A Case Study from Biloxi, Mississippi, USA.
12:15 – 13:15	Lunch break
13:15 – 14:45	Session 2: Meteorological/Climatological, Chair: Katherine Serafin

	<p>Talk 6: Ivan Haigh: Climate-induced storminess forces major increases in future storm surge hazard in the South China Sea region</p> <p>Talk 7: Holli N. Capps Herron: Spatial and Temporal Variability in the Characteristics of Extreme Daily Rainfalls in Ghana</p> <p>Talk 8: Katherine Towey: Tropical cyclone storm surge probabilities for the east coast of the United States: A cyclone-based perspective</p> <p>Talk 9: Benjamin Shaby: Projecting Flood-Inducing Precipitation with a Bayesian Analogue Model</p> <p>Talk 10: Brian Blanton: Extreme sea levels from a 41-yr coastal reanalysis for the US East and Gulf of Mexico coasts</p>
14:45 – 15:15	Coffee break
15:15 – 16:45	Session 3: Non-stationarity, Chair: Yasser Hamdi
	<p>Talk 11: Marco A. Öttl: Probabilistic design of river levees under consideration of time-dependent load structures</p> <p>Talk 12: Callum Bartrop: A novel framework for capturing non-stationarity in extremal dependence structures</p> <p>Talk 13: Yasser Hamdi: A non-stationary bivariate analysis of significant wave height and storm surge extremes in the English Channel, integrating teleconnection patterns and climate change</p> <p>Talk 14: Mitchell Krock: Nonstationary seasonal model for daily mean temperature distribution bridging bulk and tails</p> <p>Talk 15: Jens Bender: A linear-circular model to determine sub-annual flood probabilities</p> <p>Talk 16: James Stagge: Non-stationary standardized precipitation indices (NSPI) revisited: zero handling and bias correction</p>
16:45 – 18:15	Poster Session 1 and welcome reception

Wednesday, 18th May 2022	
09:00 – 09:45	<p>Keynote Lecture: Evaluation of Binary Classifiers for Environmental Extremes. Dr Philippe Naveau, Laboratoire des sciences du climat et de l'environnement (LSCE), France</p>
9:45 – 10:45	Session 4: Coastal 1, Chair: Marta Marcos
	<p>Talk 17: Mercè Casas-Prat: Analysis of extreme sea levels around the Canadian coastlines – the effect of temporal inhomogeneities</p> <p>Talk 18: Stefan Talke: Duration of Coastal Flooding and its link to Tidal Properties</p> <p>Talk 19: Whitney K. Huang: A Combined Physical-Statistical Approach for Estimating Storm Surge Risk</p> <p>Talk 20: Alejandra Enriquez: Predictable changes in extreme storm tides and coastal flood risk due to nodal and perigeon cycles</p>
10:45 – 11:15	Coffee break
11:15 – 12:45	Session 5: Coastal 2, Chair: Alejandra Rodriguez Enriquez

5th International Conference on Advances in Extreme Value Analysis and Application to Natural Hazard (EVAN), 17 to 19 May 2022, Orlando, FL, USA

	<p>Talk 21: Paula Camus: Spatial footprints of extreme storm surge events around the coastline of the UK</p> <p>Talk 22: Elisa Ragno: Flooding in Venice: investigating extreme water level and its components</p> <p>Talk 23: Steven Meyers: Extreme Vessels Meet Extreme Values, Creating Hazards Near the Coast</p> <p>Talk 24: Eleanor D'Arcy: Extreme Sea Level Estimation: Accounting for Seasonality and Long-Term Changes</p> <p>Talk 25: James Booth: Cyclone Tracks, Atmospheric Blocking, and Storm Surge Extremes for the North America Eastern Seaboard</p> <p>Talk 26: Soenke Dangendorf: Contributions of individual sea-level budget components to High Tide Flooding along U.S. coastlines</p>
12:45 – 13:45	Lunch break
13:45 – 15:15	Session 6: Coastal 3, Chair: Stefan Talke
	<p>Talk 27: Laurie Saint Crieg: Analysis of extreme skew surges combining systematic skew surges and historical water levels</p> <p>Talk 28: Marta Marcos: Coastal extreme sea levels from the new GESLA-3 tide gauge data set</p> <p>Talk 29: Alexa Latapy: Reconstruction of the historic sea level observations at Saint-Malo/Saint-Servan (French Brittany coast): changes of extreme coastal water levels since the 19th century</p> <p>Talk 30: Tim Toomey: Extreme sea levels and wind-waves in the Mediterranean Sea since 1950</p> <p>Talk 31: Philip Orton: Benefits and challenges of separating tropical and non-tropical cyclone data in assessing extremes</p> <p>Talk 32: Michael Getachew Tadesse: Global Storm Surge Reconstructions (GSSR): Change-point Detection and Trend Analysis</p>
15:45	Round Table (Chair: Yasser Hamdi) - "Non-stationarity in Extreme Value Analysis"
15:15 – 16:30	Coffee break and Posters Session 2
19:00	Gala Dinner

Thursday, 19th May 2022

09:00 – 10:30	Session 7: Methods 1, Chair: Gabriele Villarini
	<p>Talk 33: Jordan Richards: Extreme quantile regression for high-dimensional spatio-temporal applications using partially interpretable neural networks</p> <p>Talk 34: Yasser Hamdi: Comparison of statistical and integrated statistical/physical modeling approaches for extreme storm surge estimation</p> <p>Talk 35: Zina Souaissi: Probability Distributions of river water temperature in Switzerland</p> <p>Talk 36: Robert Andrew Jane: Can an event-based approach provide robust estimates of extreme water levels along the transition zone of the Suwannee River, Florida?</p>

	Talk 37: Joao Morim : Understanding uncertainty associated with global extreme wave events using a contemporary ensemble of reanalysis and hindcast products
10:30 – 11:00	Coffee break
11:00 – 12:30	Session 8: Methods 2, Chair: Elisa Ragno
	<p>Talk 38: Javier Tausia: Machine learning for coastal extreme storm surge predictions in New Zealand</p> <p>Talk 39: David Métivier: Interpretable hidden Markov model for stochastic weather generation and climate change analysis</p> <p>Talk 40: Miguel Agulles: Extreme sea level events in the western Mediterranean: analysis of the main contributions based on high frequency tide gauge records</p> <p>Talk 41: Stan Tendijck: Modelling multivariate temporal extremes for the design of offshore facilities</p> <p>Talk 42: Caroline Huguenin: Assessing the drivers of extreme dry spells across the Tempisque-Bebedero River Basin, Costa Rica</p> <p>Talk 43: Imen TURKI: On the use of climate teleconnections for investigating the non-stationary dynamics of extreme significant wave height and storm surges</p>
12:30 – 13:30	Lunch break
13:30 – 15:00	Session 9: Compound events, Chair: Philip Orton
	<p>Talk 44: David Lucio: Compound nearshore extreme events under climate change: A long-term analysis</p> <p>Talk 45: Carlos Lopez Solano: Coupling numerical modeling and joint extreme analysis of wave height and storm surge for calculating coastal hazards along the shoreline of Normandy (France)</p> <p>Talk 46: Masahiko Haraguchi: Estimating Return Intervals for Extreme Climate Conditions Related to Winter Disasters and Livestock Mortality in Mongolia</p> <p>Talk 47: Javed Ali: Assessing Compound Impacts of Natural Hazards in Miami-Dade County, Florida</p> <p>Talk 48: Ahmed Nasr: Changes in Dependence between Compound Coastal and Inland Flooding Drivers around the Contiguous United States Coastline</p> <p>Talk 49: Francisco Peña: The importance of multivariate statistical analysis to simulate compound flood hazards in North Miami</p>
15:00 – 15:30	Coffee Break
15:30 – 16:30	Session 10: Methods 3, Chair: Philippe Naveau
	<p>Talk 50: Lee Fawcett: The accuracy of, and sensitivity to, tests for asymptotic dependence in spatial extreme rainfall models</p> <p>Talk 51: Jürgen Jensen: Recent floods in Central Europe in July 2021: A new challenge for extreme value analyses!</p> <p>Talk 52: Laura Cagigal: TESLA 2.0: Climate-Based Emulator of Met-Ocean Parameters for Extra-Tropical and Tropical Cyclone Climates</p> <p>Talk 53: Charlotte Love: Multivariate statistical methods for spatially compound extremes</p>
16:30 – 16:45	Closing Remarks

Poster Sessions 1 and 2

All posters to be presented at both sessions.

1. **Qazi Muhammad Yasir:** Identification of Potential Sites for a Multi-Purpose Dam Using a Dam Suitability Stream Model
2. **Lidia Andre:** Jointly Modelling the Body and Tail of Multivariate Data
3. **Conor Murphy:** Spatio-temporal threshold selection for induced seismicity
4. **Harald Schellander:** A new methodology for the spatial estimation of snow load extremes
5. **Nathalie Giloy:** The impact of tidal predictions on historical extreme skew surges
6. **Robert Andrew Jane:** A catchment-scale assessment of the potential for compound river discharge - storm surge events
7. **Gabrielle P. Quadrado:** Spatial and temporal distribution of extreme total water levels drivers along the Atlantic margin of the Southeastern United States
8. **Denis Moiriat:** Probabilistic assessment for liquefaction potential of a flood-protection levee
9. **Yan Ding:** Extreme Shoreline Erosion Analysis Using Monte Carlo Simulations
10. **Youssof Cissokho:** Estimation of cluster functionals for regularly varying time series: sliding blocks estimators
11. **Mubbasher Munir:** Global Impact on Human Obesity using Shrinkage Models Through Machine Learning Algorithms
12. **Md Mamunur Rashid:** Global investigation of hydrologic risks from consecutive events of dry and wet extremes
13. **Gloria Buriticá:** Stable sums for inference of high return levels of multivariate rainfall time series
14. **Whitney K. Huang:** Estimating concurrent climate extremes: A conditional approach
15. **Samantha Timmers:** Identifying spatially variable compounding flood drivers along coastal rivers using observed and simulated data
16. **Yasir Abduljaleel:** Evaluation of LID practices for sustainable stormwater management under different climate change scenarios
17. **Gabriele Villarini:** On the generation of high-resolution design events capturing the joint occurrence of rainfall and storm surge in coastal basins