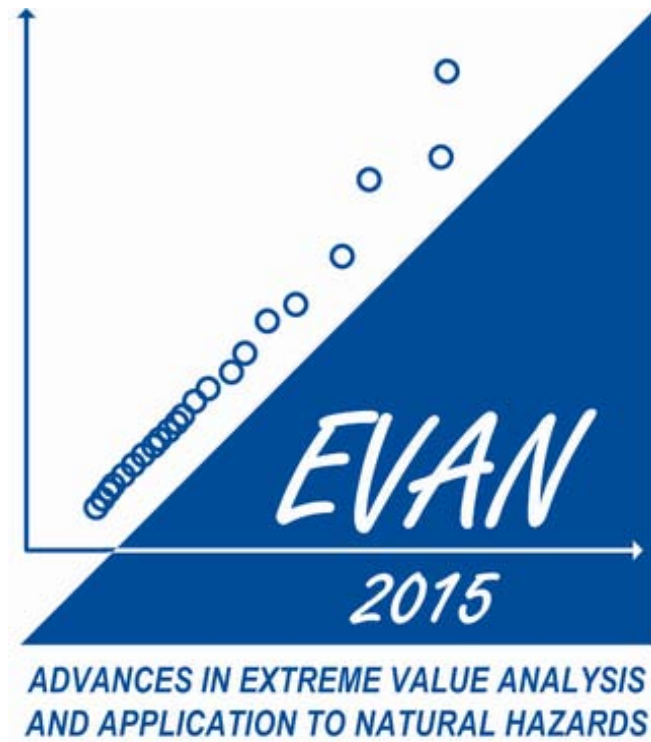


EVAN2015 INTERNATIONAL CONFERENCE



- PROGRAM -

September/2015

Wednesday, 16th September 2015	
08:00 - 09:00	Registration
09:00 - 09:15	Opening ceremony
09:15 - 10:00	Keynote Lecture. <i>Jonathan Tawn</i>
10:00 - 11:00	Session: <i>Probabilistic Models useful in Extreme Value Problems</i>
11:00 - 11:40	Coffee - break
11:35-13:00	Session: <i>Probabilistic Models useful in Extreme Value Problems</i>
Lunch Break	
14:40-16:50	Session: <i>Risk Analysis</i>
16:50 - 17:30	POSTERS & Coffee
17:30 - 19:00	Visit to IH Cantabria

Thursday, 17th September 2015	
09:00 - 11:10	Session: <i>Flood and Extreme Precipitation Analysis</i>
11:10-11:40	Coffee - break
11:40 - 13:00	Session: <i>Flood and Extreme Precipitation Analysis</i>
Lunch Break	
14:40-17:10	Session: <i>Extra-Tropical and Tropical cyclones</i>
17:10 - 17:45	POSTERS & Coffee
20:00	Gala Dinner Gran Casino Sardinero

Friday, 18th September 2015	
09:00 - 10:50	Session: <i>Extremes from a Climate Perspective</i>
10:50-11:20	POSTERS & Coffee
11:20 - 14:00	Session: <i>Extremes from a Climate Perspective</i>

Opening ceremony:

- ◆ [09:00 - 09:15]
By authorities of the host institutions of the EVAN2015 international conference

Keynote Lecture:

- ◆ [09:15 - 10:00]
Applying multivariate extremes value methods for univariate and spatial flood risk assessment.
Jonathan Tawn

Session 1: PROBABILISTIC MODELS USEFUL IN EXTREME VALUE PROBLEMS

- ◆ [10:00 - 10:20]
On Bayesian inference for non-stationary extremes
*David Randell, Matthew Jones, Kathryn Turnbull, Philip Jonathan**
- ◆ [10:20 - 10:40]
Modelling non-stationary environmental extremes
Elena Zanini, Emma Eastoe, Jonathan Tawn, Philip Jonathan, David Randell.*
- ◆ [10:40 - 11:00]
Balancing Two Types Errors in Detecting the Difference between the Occurrence Rates of Extremes due to the Climate Change
Toshikazu Kitano.
- ◆ [11:40 - 12:00]
Parsimonious and Flexible Models for Spatial Extremes
Monika Kereszturi and Jonathan Tawn*
- ◆ [12:00 - 12:20]
Environmental Contours for a Conditional Multivariate Extreme Model
Marc Prevosto, Thomas Bulteau, Yanira Guanche, François Paris*

- ◆ [12:20 - 12:40]
Considering the non-simultaneous occurrence of extremes via Copulas
*Jens Bender**, *Thomas Wahl*, *Alfred Müller*, *Jürgen Jensen*
- ◆ [12:40 - 13:00]
An event-based approach for extreme joint probabilities of waves and sea levels
*Franck Mazas** and *Luc Hamm*
- ◆ [14:40 - 15:00]
Modeling dependence through CrEnC copulas: application to rainfall data
*M.I. Ortego**, *J.J. Egozcue*
- ◆ [15:00 - 15:20]
Extreme wind speed in France: regional versus local analysis
*Sylvie Parey**, *Pietro Bernardara*, *Marc Andreewsy*.
- ◆ [16:50 - 17:30] (Poster)
Simulation model of temperatures and cold waves
*Thi Thu Huong Hoang**, *Sylvie Parey*.
- ◆ [16:50 - 17:30] (Poster)
Wind / Wave directional modelling: a compositional approach
*M.I. Ortego**, *J.J. Egozcue*, *J. Gómez*, *C. Mösso* and *A. Sánchez-Arcilla*

Session 2: RISK ANALYSIS

- ◆ [15:20 - 15:50]
(Solicited) Toward a coherent framework for the Hazards Combinations characterisation
*Pietro Bernardara**, *Arthur Penserini*, *Sylvaine Maurau*
- ◆ [15:50 - 16:10]
Quantile-Based Risk Assessment of Spatial Threshold Exceedances
*José M. Angulo**, *Ana E. Madrid*, *José L. Romero*
- ◆ [16:10 - 16:30]
Assessing the Risk of Heatwaves using Extreme Value Theory
*Hugo Winter**, *Jonathan Tawn*, *Simon Brown*

- ◆ [16:30 - 16:50]
Changing failure probabilities of individual dike sections within their operating time under non-stationary conditions
Sebastian Niehüser, Jens Bender, Jürgen Jensen*

- ◆ [16:50 - 17:30] (Poster)
New Procedure for Probabilistic Hazard Assessment from Incomplete and Uncertain Data
Ansie Smit, Andrzej Kijko, Inger Fabris-Rotelli, Paul van Staden

- ◆ [16:50 - 17:30] (Poster)
Risk Assessment and Effect of Liquefaction on Dam Stability
Mohammad Shirvani, Uones Khademi

Session 3: FLOOD AND EXTREME PRECIPITATION ANALYSIS

- ◆ [09:00 - 09:30]
(Solicited) Increasing risk of compound flooding from storm surge and rainfall for major US coastal cities
Thomas Wahl*, Shaleen Jain, Jens Bender, Steven D. Meyers, Mark E. Luther
- ◆ [09:30 - 09:50]
Statistical Methods for Determining Storm Surge Return Levels along the U.S. Gulf Coast
Hal Needham*, Barry Keim, David Sathiaraj and Amanda Lewis.
- ◆ [09:50 - 10:10]
Sea level rise induced changes in the design levels of coastal defenses along the northern German Bight
Arne Arns* and Jürgen Jensen
- ◆ [10:10 - 10:30]
On the estimation of centennial flooding levels
Yanira Guanache, François Paris, Thomas Bulteau*, Marc Prevosto and Christophe Maisondieu
- ◆ [10:30 - 10:50]
Coastal-storm inundation hazard assessment using the Monte Carlo joint-probability extreme sea level method
Scott A. Stephens*, Derek Goring, Rob Bell
- ◆ [10:50 - 11:10]
Monte-Carlo climate-based multivariate emulator for coastal flooding
Ana Rueda*, Paula Camus, Antonio Tomás, Fernando Méndez.
- ◆ [11:40 - 12:00]
Simulating the relative contributions of extreme total water levels along the US West Coast
Katherine Serafin, Peter Ruggiero* and Hilary Stockdon

- ◆ [12:00 - 12:20]
 Characterization of multivariate flooding extremes through composition of conditioned fits
 Manuel del Jesus*, Paula Camus, Fernando Méndez, Iñigo J. Losada
- ◆ [12:20 - 12:40]
 Coupling a multivariate extreme value model with an emulator for national-scale, coastal flood risk analysis
 David Wyncoll* and Ben Gouldby
- ◆ [12:40 - 13:00]
 Exploring spatio-temporal patterns of Swiss hourly heavy precipitation
Anne Schindler, Andrea Toreti, Sophie Fukutome*
- ◆ [14:40 - 15:00]
 Seasonality of Extreme Precipitation Events in a Changing Climate: A nonparametric approach and critical considerations for climate change studies
Shaleen Jain and Nirajan Dhakal*
- ◆ [17:10- 17:30] (Poster)
 Usefulness of historical information in extreme value analysis of coastal water levels or how to relativize outlier
Thomas Bulteau, Déborah Idier, Jérôme Lambert, Manuel Garcin
- ◆ [17:10 - 17:30] (Poster)
 Non-stationarity in US extreme sea level records and the role of large scale climate variations
Thomas Wahl and Don P. Chambers
- ◆ [17:10 - 17:30] (Poster)
 Extreme value analysis of cyclonic storms along east coast of India: Climate perspective
Narayana, A.C. and Shaleen Jain

Session 4: EXTRA-TROPICAL AND TROPICAL CYCLONES

- ◆ [15:00 - 15:30]
(Solicited) Spatial/regional and temporal footprint analysis of extreme sea level events
Ivan D. Haigh, Matthew P. Wadey and Robert J. Nicholls*
- ◆ [15:30 - 15:50]
Analysis of the exceptionality of the Winter 2013-2014 in the North Atlantic based on weather types
Paula Camus, Fernando Méndez, Ana Rueda, José Antolínez.*
- ◆ [15:50 - 16:10]
Modelling extremes arising from extra-tropical cyclones
Paul Sharkey, Jonathan Tawn, Simon Brown, Pietro Bernardara.*
- ◆ [16:10 - 16:30]
A Stochastic Cyclone Based Study of Wind and Wave Driven Extreme Sea Levels at a Pacific Island Capitol
Paul Ron K Hoeke, Kathy L. McInnes, Julian O'Grady*
- ◆ [16:30 - 16:50]
Tropical Cyclone-induced Extreme Waves
*Emanuele Terrile**
- ◆ [16:50 - 17:10]
Sea state climatology around Reunion Island: analysis of the present climate and the future evolutions under climate change scenarios
Jessie Louisor, Amélie Laugel, Michel Benoit*
- ◆ [17:10 - 17:30] (Poster)
Exploring changes in hurricane-induced wave heights in the Caribbean
Ruben Montoya, Melisa Menendez, Andrés F. Osorio*
- ◆ [17:10 - 17:30] (Poster)
On a quantitative link between African dust and Atlantic hurricane count
B. R. Pearce, Shaleen Jain, W. Halteman, M. Beyene*

Session 5: EXTREMES FROM A CLIMATE PERSPECTIVE

- ◆ [09:00 - 09:30]
(Solicited) Extreme events in a Changing Climate
Félix Francés
- ◆ [09:30 - 09:50]
Nonstationarity in Extremes and Changes in Flood Risk in a Warming Climate
Linyin Cheng, Elisa Ragno, Xue Cui, Amir AghaKouchak*
- ◆ [09:50 - 10:10]
Global storm surge climate change projections
Alba Cid, Paula Camus, Sonia Castanedo, Fernando Méndez and Raúl Medina*
- ◆ [10:10 - 10:30]
On the Credibility of Regional Climate Models to Reproduce Extreme Precipitation
Ana Casanueva, Sixto Herrera, José Manuel Gutiérrez, Jesús Fernández*
- ◆ [10:30 - 10:50]
The assessment of extreme rainfall at Buon Me Thuot city in Central Highlands Vietnam
Manh Hung Le, Biswa Bhattacharya, Cao Don Nguyen, Luong Bang Nguyen*
- ◆ [11:20 - 11:40]
Extremes in hydraulic modelling. Combined capabilities in the Spanish network MARHIS
Agustín Sánchez-Arcilla, Iñigo Losada, Francisco Luis Martín, Daniel González-Marco*
- ◆ [11:40 - 12:00]
Characteristics of extreme events in an ensemble of dynamical GCM forced wave climate simulations
Mark Hemer
- ◆ [12:00 - 12:20]
Quantifying extreme maximum temperatures in a changing climate
Kate Brown, Simon Brown, Rachel McInnes and Michael Sanderson*

- ◆ [12:20 - 12:40]
Projections of Australian regional temperature extremes from CMIP5 models
Louise Wilson and Tony Rafter*

- ◆ [12:40 - 13:00]
Temperature and precipitation extremes over Spain for the 21st century: return periods
Petra Ramos-Calzado, M. Pilar Amblas-Francés, M. Jesús Casado-Calle, Ernesto Rodríguez-Camino, M. Asunción Pastor-Saavedra*

- ◆ [13:00 - 13:20]
Heat Waves in Extremadura (SW Iberian Peninsula): non-stationary future return levels
Francisco-Javier Acero, María-Isabel Fernández-Fernández, Victor-Manuel-Sánchez Carrasco, Sylvie Parey, José-Agustín García, María-Cruz Gallego*

- ◆ [13:20 - 13:40]
Extreme Value Modelling of Rainfall in the Brazilian Amazon Basin
Luiz Guerreiro Lopes, Délia Gouveia-Reis, Sandra Mendonça*

- ◆ [13:40 - 14:00]
Analysis of nonstationary extreme storm surges in the present and the future climate of the Aegean Sea
Panagiota Galiatsatou, Christina Anagnostopoulou, Panayotis Prinos*

- ◆ [10:50 - 11:20] (Poster)
Climate change opens new shipping routes in the Arctic Ocean
Ernesto Madariaga, Francisco Correa, Francisco J. Lastra, Jesus M. Oria

- ◆ [10:50 - 11:20] (Poster)
Pollutant release from contaminated marine sediment under extreme acidification conditions due to CCS leakages and chemical spills
M.Camino Martín-Torre, Gema Ruiz, Berta Galán, Alberto Coz, Javier R. Viguri

- ◆ [10:50 - 11:20] (Poster)
Extremes of convective and stratiform precipitation in an ensemble of regional climate model simulations
Jan Kysely, Zuzana Rulfova, Ales Farda, Martin Hanel

- ◆ [10:50 - 11:20] (Poster)
Extreme meteorological induced sea level trends and sensitivity to NAO in Southern Europe
Alba Cid, Melisa Menéndez, Sonia Castanedo, Ana J. Abascal, Fernando Méndez, Raúl Medina