

**Tuesday 16th September**

**19:30** *Welcome drink “La Cave des Pas Sages”* 41, rue des Teinturiers.

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**All talks will take place in Room 2E07. Access is in the historical building: take the large stairs up to 2nd floor. Then straight ahead in Eastern corridor.**

**Luggage room available nearby, in room 2E12.**

## Wednesday 17th September

8:20 – 8:50 Registration

8:50 – 9:00 Welcome address

### 9:00 – 10:30 **Simulating Precipitation**

*Moderator: P. Naveau*

- **E. Leblois** : Space-time simulation of intermittent rainfall with prescribed advection field: adaptation of the turning band method
- **N. Akrou** : Generation of Rainfall time series from micro to large scale
- **A. Baxevani** : Spatio-temporal precipitation generator with a censored latent Gaussian field

10:30 – 11:00 *Coffee break*

### 11:00 – 12:30 **Simulating wind conditions**

*Moderator: P. Naveau*

- **J. Bessac** : Markov-Switching AutoRegressive models for Cartesian components of wind fields in the North-East Atlantic
- **I. Rychlik** : Variability of wind speed encountered by a vessel
- **M. Oesting** : Conditional Modeling of Extreme Wind Gusts by Bivariate Brown-Resnick Processes

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12:30 – 14:15 *Lunch at University restaurant*

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### 14:15 – 15:45 **SWGs from a user prospective**

*Moderator: D. Allard*

- **S. Pincebourde** : The role of microclimates in climate change responses: ecologists need climatic data with high resolution
- **S. Parey** : A stochastic weather generator for temperature, examples of use and future developments
- **M. Othmani** : TBA

15:45 – 16:15 *Coffee break*

### 16:15 – 17:15 **Simulating Precipitation**

*Moderator: D. Allard*

- **Y. Sun** : A Stochastic Space-time Model for Intermittent Precipitation Occurrences
- **J. Carreau** : Assessing the impacts of the choice of spatial dependence structure for flood-risk rainfall

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18:30 *Wine tasting: Meeting point, Place Pie, in front "Les Halles"*

21:00 *Light show "Luminescences" at the Palais des Papes.  
[www.lesluminessences-avignon.com](http://www.lesluminessences-avignon.com)*

## Thursday 18th September

9:00 – 10:30 **Downscaling**

*Moderator: V. Monbet*

- **S. Sain** : Impact of resolution in dynamic downscaling experiments
- **M. Vrac** : Conditional Stochastic Weather Generators for precipitation downscaling
- **A. Bechler** : Conditional Simulations of max-stable processes for the extreme downscaling

10:30 – 11:00 *Coffee break*

11:00 – 12:30 **Special statistical topics**

*Moderator: V. Monbet*

- **P. Thomson** : Estimating the slope and standard error of a long-term linear trend fitted to adjusted annual temperatures
- **T. Carey-Smith** : Stochastic rainfall seasonality: estimation and applications
- **W. Kleiber** : High Resolution Nonstationary Weather Simulation

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12:30 – 14:15 *Lunch at University restaurant*

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14:15 – 15:45 **Simulating Sea States / Physical model**

*Moderator: P. Ailliot*

- **Y. Guanche** : Climate-based multivariate simulation technique of sea states
- **K. Kpogo Nuwoklo**: Assessment in the form of metocean events of the swell climate in West Africa
- **V. Resseguier** : Reduced flow models from a stochastic Navier-Stokes representation

15:45 – 16:15 *Coffee break*

16:15 – 17:15 **Analogues and resampling methods**

*Moderator: P. Ailliot*

- **F. Oriani** : Daily rainfall simulation: reproducing high-order statistics with the Direct Sampling technique
- **P. Yiou** : Weather and event generators based on analogues of atmospheric circulation

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19:45 *Workshop Dinner, « Le Bercail », Ile de la Barthelasse.  
Meeting at 19:15, Place de l'Horloge.*

## Friday 19th September

### 9:00 – 10:30 **Multivariate and multisite Weather Generators**

*Moderator: P. Thomson*

- **M. Genton** : Cross-Covariance Functions for Multivariate Geostatistics
- **J. Chen** : Stochastic generation of precipitation and temperature: from single-site to multi-site
- **M. Bourotte** : A stochastic weather generator based on new spatio-temporal cross-covariance functions

10:30 – 11:00 *Coffee break*

### 11:00 – 12:30 **Multivariate and multisite Weather Generators, ensemble forecasts and diagnostic approaches**

*Moderator: P. Thomson*

- **R. Chandler** : Rglimclim: a multivariate, multisite daily weather generator for climate change impact studies
- **R. Schefzik** : Physically coherent probabilistic weather forecasts via ensemble copula coupling (ECC)
- **R. Girard** : Diagnostic approaches for scenarios of short-term wind power generation

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12:30 – 14:00 *Lunch at University restaurant*

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### 14:00 – 15:00 **General Discussion**

“SWG in 2020: roadblocks, challenges and future directions”