Mélaine is currently a postdoc researcher at UMR AMAP - IRD, Montpellier, France. Working on forest modelling, she is interested in forests dynamics and the impacts of climate change using modelling approaches.

**Email:** melaine.aubry.kientz@gmail.com  
**Personal website:** maubrykientz.wordpress.com

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**21 September 2018**  
11h00 – 11h40  
Salle 201, Bâtiment PS2, CIRAD-UMR AMAP, Boulevard de la Lironde

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**Future climate impacts on the forest of the Sierra Nevada, California. Modelling forest dynamics using SORTIE-ND.**

*presented by*

**Dr. Mélaine Aubry-Kientz**  
UMR AMAP – IRD, Montpellier, France

**ABSTRACT**

The Sierra Nevadan mountain range, situated in California, experienced severe droughts followed by very wet winters during the past years, and extreme climatic events will become more frequent and more intense with ongoing global changes. Individual-based forest simulators can be useful tools to study and forecast the effects of climate change on diverse forests. We used the forest simulator SORTIE-ND to model the dynamics of the mountainous forest in the Sierra Nevada and then to project the forest responses to changing climate over the next century.

**KEY WORDS**

Forest dynamics, model, SORTIE-ND, climate change.

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**Invited and animated by:** Dr. Grégoire Vincent (UMR AMAP)  
**Type:** Research results  
**Oral language:** français  
**Language of PPT:** english