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## **(POS-27) Exploring cloud dynamics with Cloud Model 1 –insights from a university modeling workshop**

*Tuesday 10 June 2025 18:02 (2 minutes)*

We present a two-week educational block course, first conducted at the University of Bonn during the 2023 winter semester, that introduced students to Cloud Model 1 (CM1) and its convection-resolving capabilities. The course provided training in configuring and running CM1 simulations on a high-performance computing cluster, offering participants practical experience in numerical modeling of moist convection. Additionally, an introduction to three-dimensional visualization software enabled the transformation of simulation data into graphical representations, facilitating the interpretation of cloud dynamics. Pre- and post-course surveys indicate its effectiveness in enhancing participants' understanding of the subject matter and showing their steep learning curve. While the first part of the course covers the essentials, participants applied their acquired knowledge to independent research projects in the second part. Building on this experience, the course is now being adapted to develop learning materials for students at Western University. First experiences and results will be presented here. This course will be used to study severe convective events in Canada together with students.

### **Keyword-1**

Cloud Model 1 block course

### **Keyword-2**

Severe Convection and clouds

### **Keyword-3**

**Author:** SCHIELICKE, Lisa (Western University)

**Co-authors:** SCHYNS, Jerome (University of Bonn); SOLANO MARCHINI, Jose Pablo (University of Bonn); LI, Yidan (University of Bonn); SPERSCHNEIDER, Aaron (University of Bonn); ABDUL RAHMAN, Rayhan (Western University); GATZEN, Christoph (Western University / CSSL)

**Presenter:** SCHIELICKE, Lisa (Western University)

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