

SURFEX CEN 2015-2016 + future plans

Development	Branche	Status
SYTRON snow transportation by wind scheme	Included in lafaysse_fromv8trunk	Done. Ready for next version.
MEB-Crocus coupling	Included in lafaysse_fromv8trunk	To be tested and evaluated
New snow netcdf outputs and diagnostics with snow layer dimension	Included in lafaysse_fromv8trunk	Done. To be included in V8.1 ?
Multi-physical simulations for Crocus	Implemented in <V8 (B. Cluzet, M. Lafaysse)	To be merged in lafaysse_fromv8trunk
Implementation of the radiative transfert scheme <b>ATMOTARTES for the atmosphere and prognostic snow impurity content (no scavenging)</b>	Included in branch > lafaysse_fromv8trunk (M. Dumont)	To be continued (further detail in impurity content evolution laws, add some of ALADIN-Climat variables in forcing.nc for deposition rate)
Crocus-resort : include grooming effect and artificial snow production	Included in branch > lafaysse_fromv8trunk (P. Spandre)	To be continued
Adaptation of Crocus to Dome C snow conditions	Implemented in <V8 (Q. Libois, S. Morin)	To be merged in lafaysse_fromv8trunk
Implementation of Richard equation for liquid water percolation in Crocus	Implemented in <V8 (C. d'Amboise, S. Morin)	To be finalized and to be merged in lafaysse_fromv8trunk
Implementation of new sets of physical properties for falling snow	In branch > lafaysse_fromv8trunk (V. Vionnet)	To be developed (2016)
Implementation of a numerical representation of icing events in Crocus	In branch > lafaysse_fromv8trunk (L. Quéno)	To be continued (2016)
Implementation of the snow mechanical stability analysis scheme MEPRa in SURFEX	In branch > lafaysse_fromv8trunk (P. Hagenmuller)	To be developed (2016)