Supplement of The Cryosphere, 18, 5685–5711, 2024
https://doi.org/10.5194/tc-18-5685-2024-supplement

The Cryosphere Open Access EGU

Supplement of

Multi-physics ensemble modelling of Arctic tundra snowpack properties

Georgina J. Woolley et al.

Correspondence to: Georgina J. Woolley (georgina.j.woolley@northumbria.ac.uk)

Supplementary Material (S1)

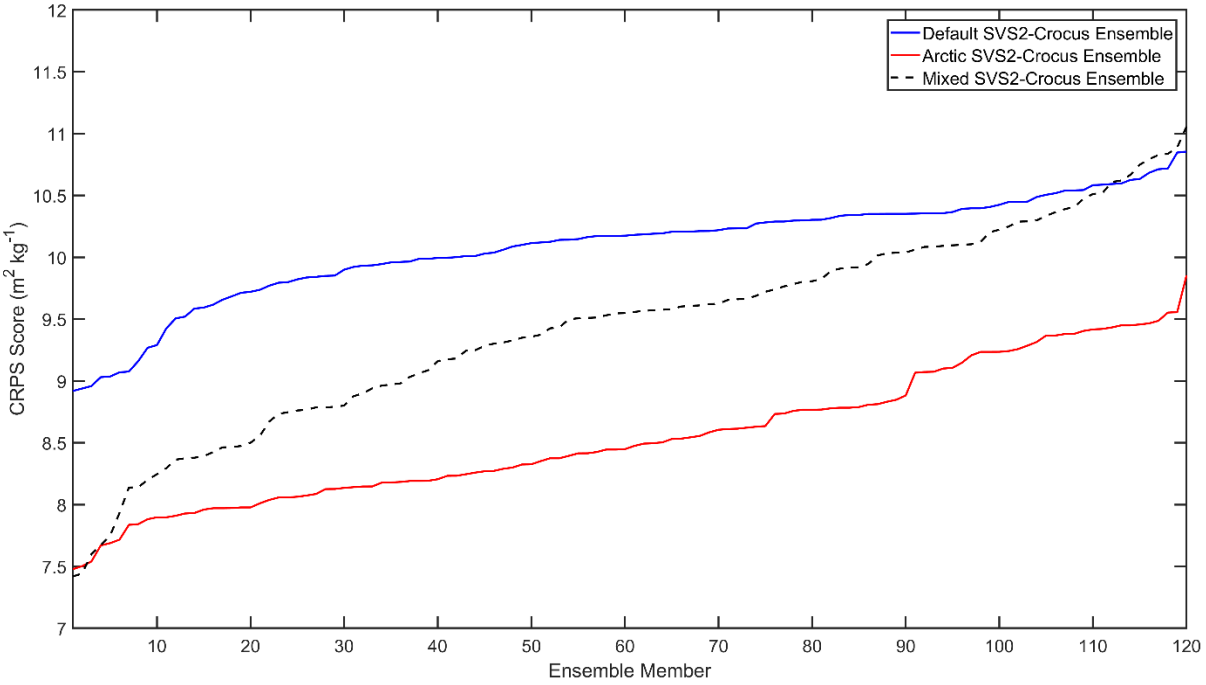

Figure S1: Comparison of CRPS scores for all 120 members of the default, Arctic and mixed ensembles of SVS2-Crocus for the simulation of SSA (m^2 kg^{-1}) averaged over the whole snowpack in March 2018, March 2019, March 2022 and March 2023.

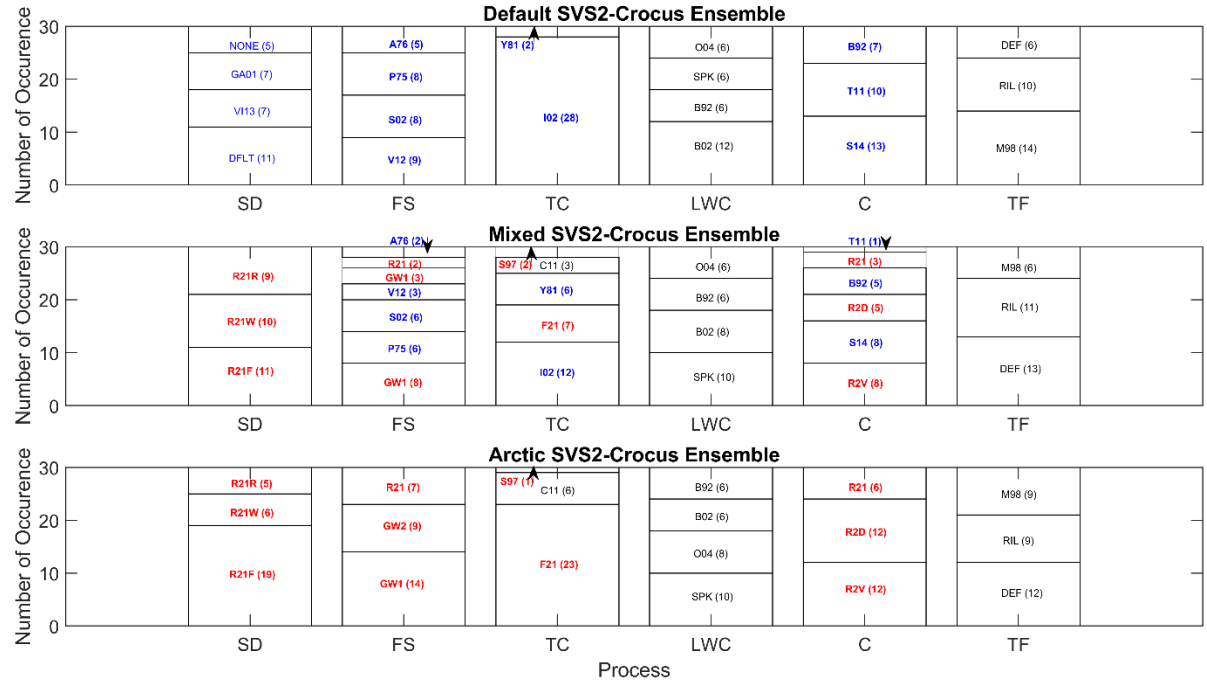

Figure S2: Number of occurrences of each parameterisation in the top 30 members with the lowest CRPS scores for simulation of SSA by default, mixed and Arctic SVS2-Crocus. Blue indicates members of the default ensemble; red indicates members of the Arctic ensemble and black indicates members of both. Numbers in brackets represent number of occurrence. SD: Snowdrift, FS: Falling Snow, TC: Thermal Conductivity, LWC: Liquid Water Content, C: Compaction, TF: Turbulent Flux.