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Supplement of

**The role of liquid water percolation representation in
estimating snow water equivalent in a Mediterranean
mountain region (Mount Lebanon)**

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Supplement

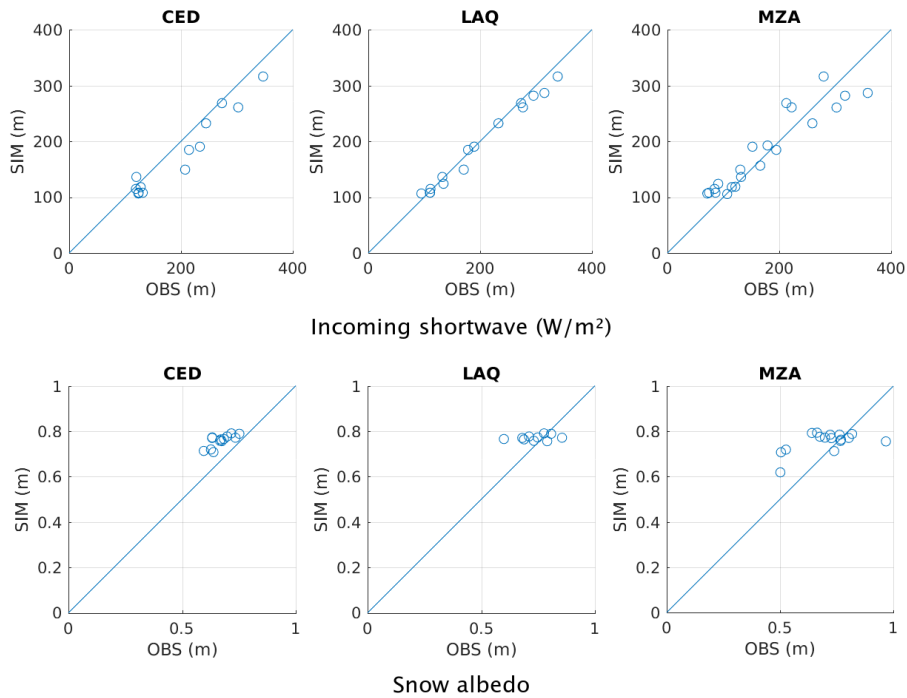


Figure S1. Scatterplots of observed vs. modelled monthly incoming shortwave radiation and snow albedo.

Figure S1 compares the monthly observed and modelled shortwave radiation and snow albedo at the three AWS. Here the Pflug et al. (2019) model was used. The incoming shortwave is well simulated with correlation coefficients ranging between 0.94 and 0.99 and RMSE ranging between 13 W m^{-2} (LAQ) and 32 W m^{-2} (MZA). The snow albedo variability is less accurately captured but the RMSE remains acceptable with 0.086, 0.074, and 0.096 at CED, LAQ, and MZA respectively.