



Corrigendum to

“Hyper-resolution large-scale hydrological modelling benefits from improved process representation in mountain regions” published in Hydrol. Earth Syst. Sci., 29, 7041–7071, 2025

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After publication of the article mentioned above, a mistake has been identified in Fig. 5. We want to inform you that we used a wrong data product in the snow reference dataset from CERRA-Land in Fig. 5 (dark red line). An updated version of Fig. 5 and its caption can be found below. This change means that the representation of snow water equivalent in the updated PCR-GLOBWB version is more comparable to CERRA-Land, but the performance of both datasets is still between the performance of ERA5-Land and the OSHD reference product. The main conclusions of the paper remain unaffected.

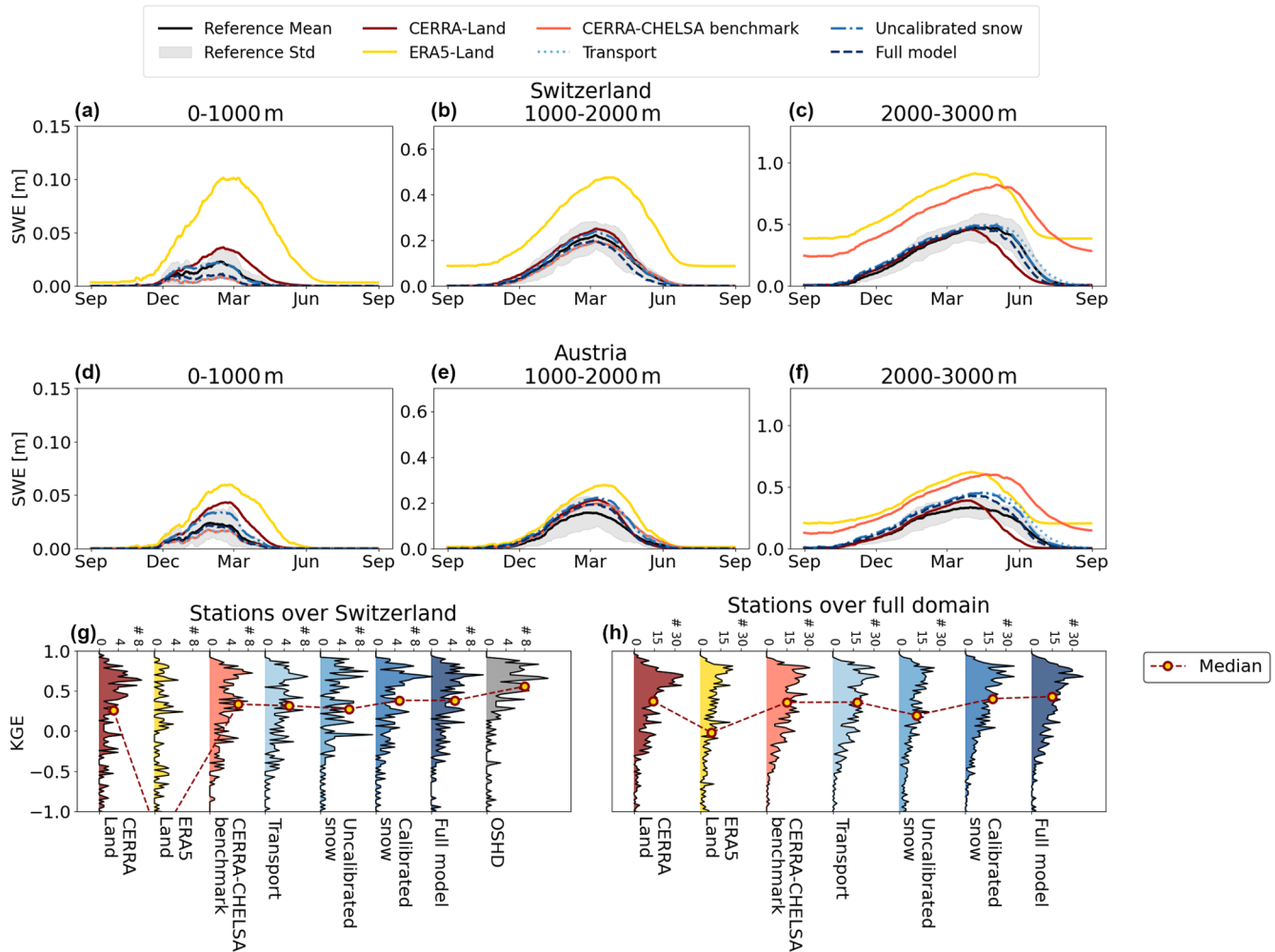


Figure 5. Snow representation for different elevation zones and regions. Average snow climatology over Switzerland (a–c) and Austria (d–f) for grid cells at elevations between 0–1000 m (a, d), 1000–2000 m (b, e), and 2000–3000 m (c, f) derived from the gridded simulations and reanalysis products. The reference products are the OSHD reanalysis for Switzerland and the SNOWGRID product for Austria. Note that, for simplicity, we only show the full model run instead of the calibrated snow run as these have the same snow module configuration. Panels (g) and (h) show KGEs of SWE time series at the different measurement stations of Fontrodona-Bach et al. (2023b) over Switzerland (g; 251 stations) and the full Alpine domain (h; 1047 stations) for different model runs and reanalysis products. For (g) and (h), note that roughly 3 % to 10 % of stations have a KGE < −1 (10 %–30 % for CERRA-Land and > 30 % for ERA5-Land).