



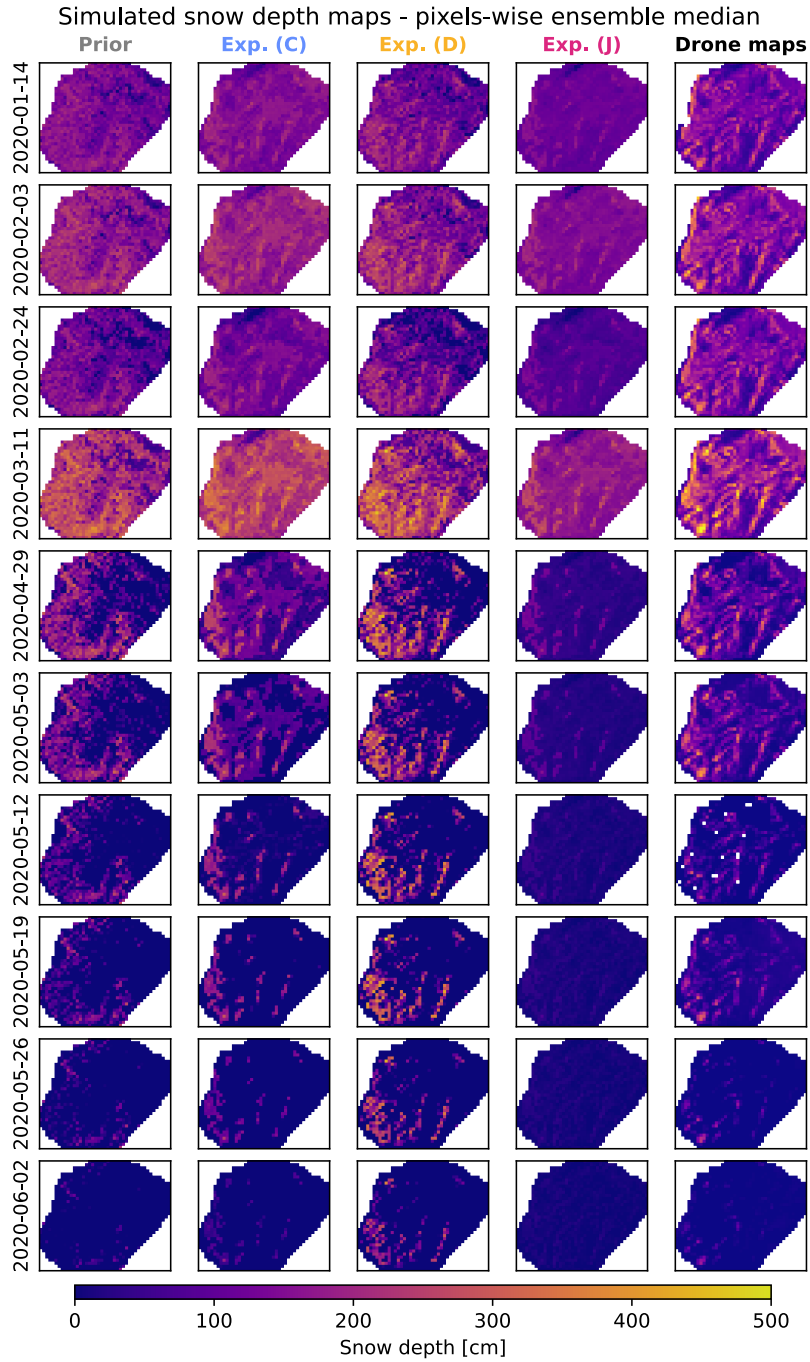
*Supplement of*

## **Spatio-temporal snow data assimilation with the ICESat-2 laser altimeter**

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**Figure S1.** Supplement to the results. For experiments (C),(D), and (J) the simulations are compared to the available drone-based snow maps of the experimental catchment used as validation. In contrast with Figure 5 in the paper, each pixel's snow depth is selected as the median of all the ensembles, so the spatial structure dictated by the prior covariance is not represented in the maps; it is in contrast possible to appreciate a smoother spatial distribution.