



*Supplement of*

## **Wind tunnel experiments: cold-air pooling and atmospheric decoupling above a melting snow patch**

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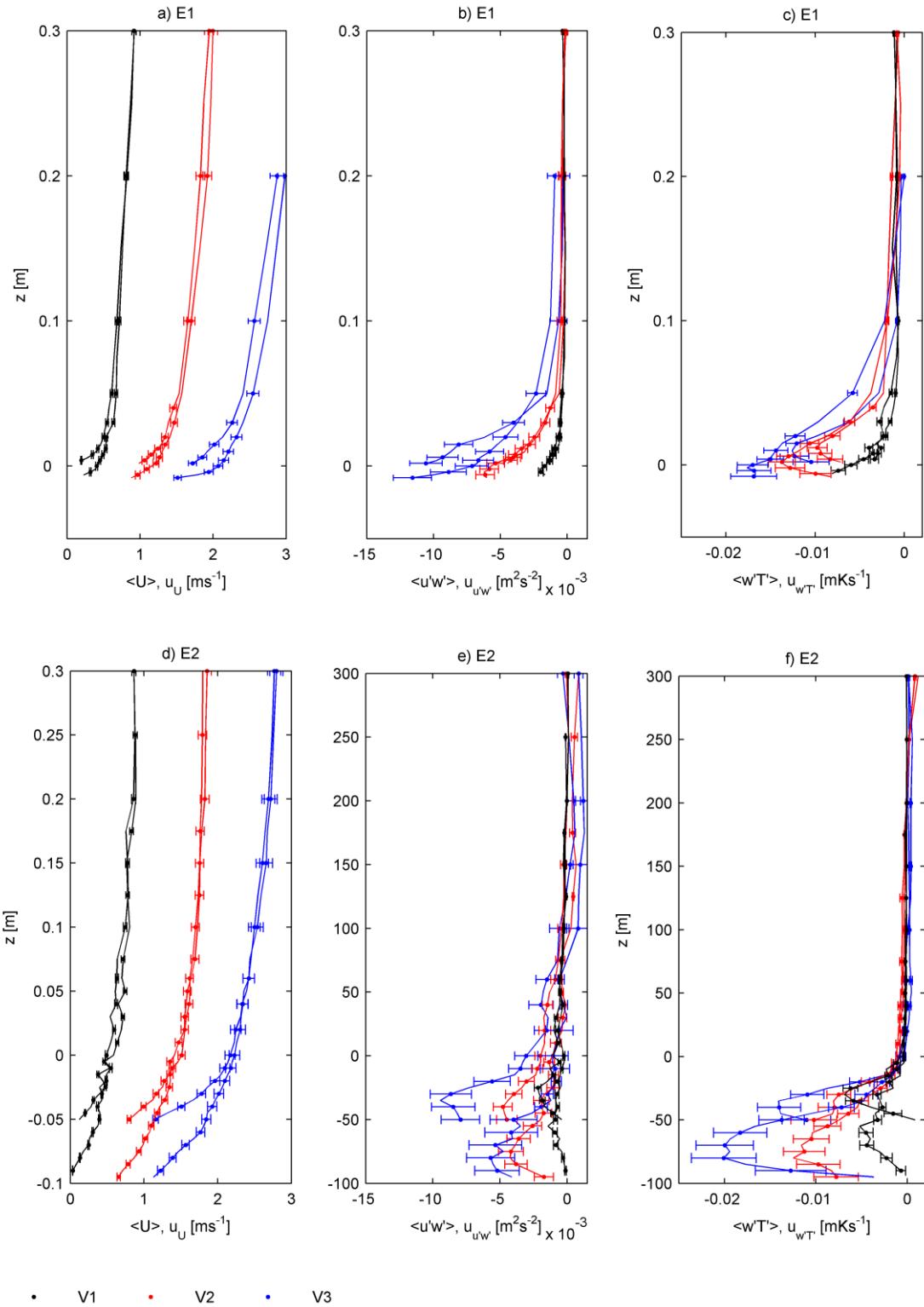


Figure 1 –Supplement: Profiles of stream-wise wind velocity (a, d), momentum fluxes (b, e) and heat fluxes (c, f) with corresponding uncertainty estimates shown as error bars for each measurement point.

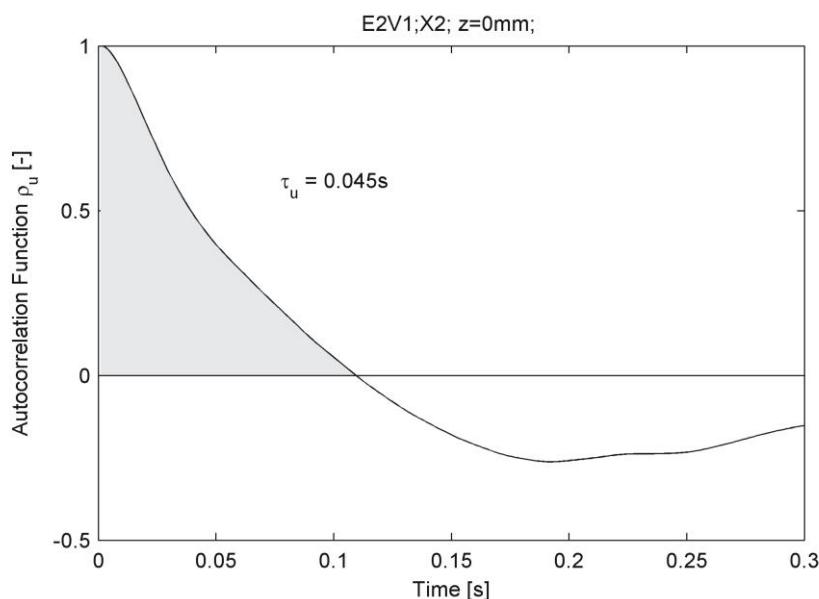
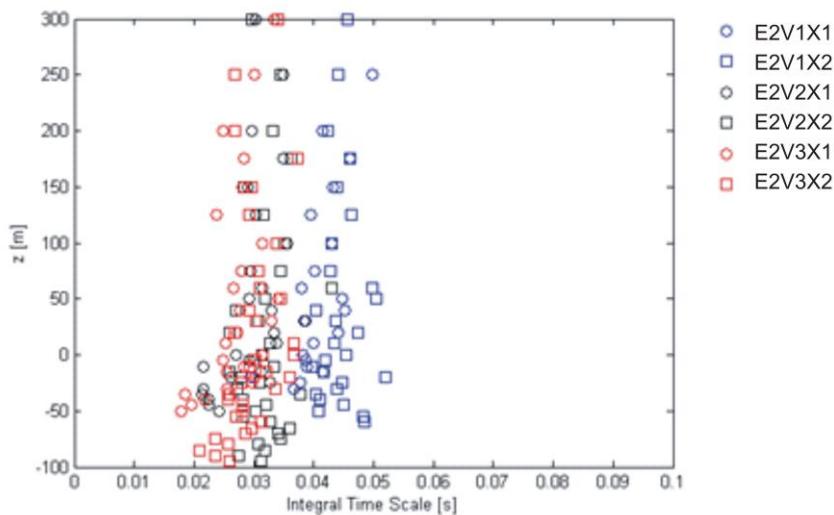


Figure 2 – Supplement: Experiments were designed to sample the flow at least hundred times the integral time scale (Tropea, C., Yarin, A.L. and Foss, J.F. eds., 2007. Springer handbook of experimental fluid mechanics. Springer Science & Business Media). As shown in the upper figure the integral time scale ranges between 0.02 and 0.05 for all the experiments. The bottom figure shows an example of the resulting integral time scale obtained by integrating the area below the autocorrelation function until this reaches zero.