

**advancing** Experiments starting from an **initial glacier surface**, with regularisation parameters  $\lambda_0 = 10$  and  $\lambda_1 = 100$

fg: first guess

— and A: 'explicit' approach

— and B: 'implicit' approach

— and C: 'iterative' approach

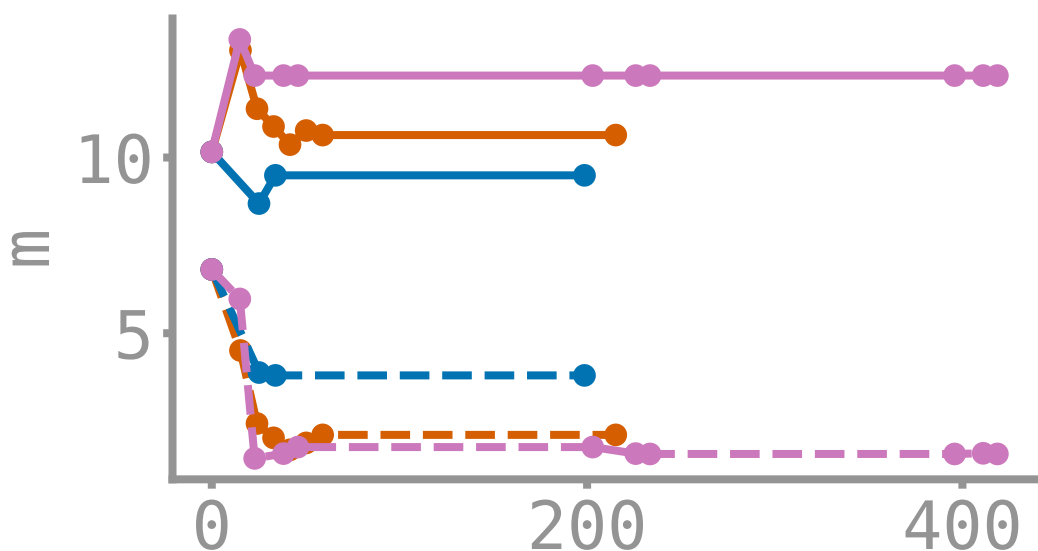
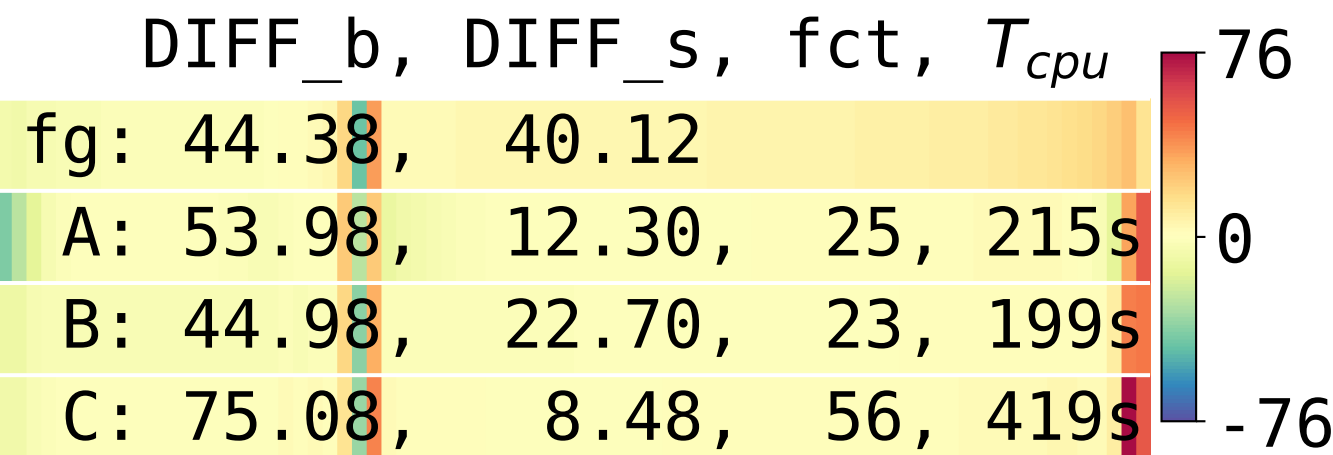
— RMSE of  $b$  and  $b_t$

— RMSE of  $s_m^e$  and  $s_o^e$

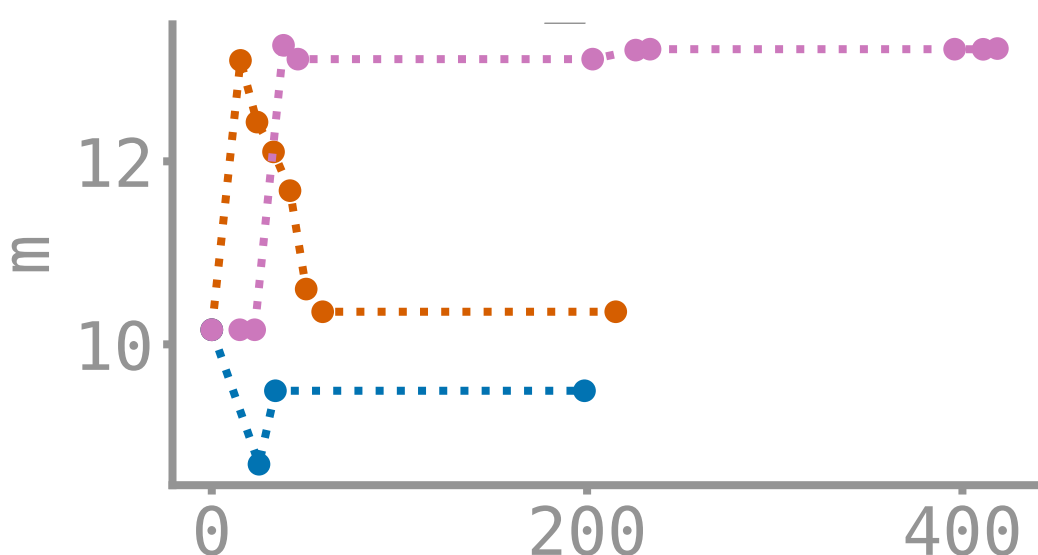
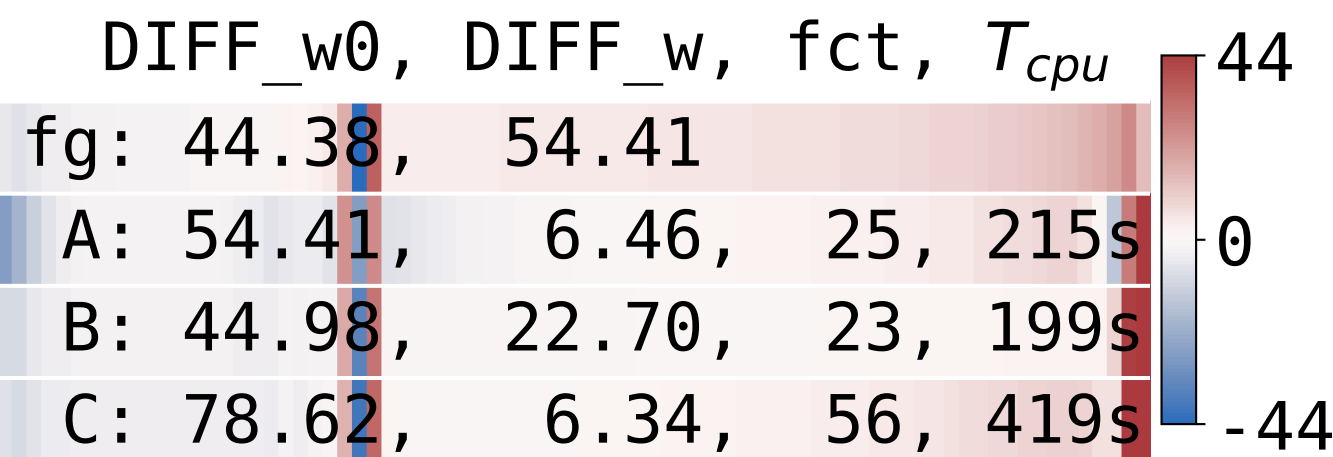
— RMSE of  $w_0$  and  $w_{0t}$

bed  $w_0$  shown

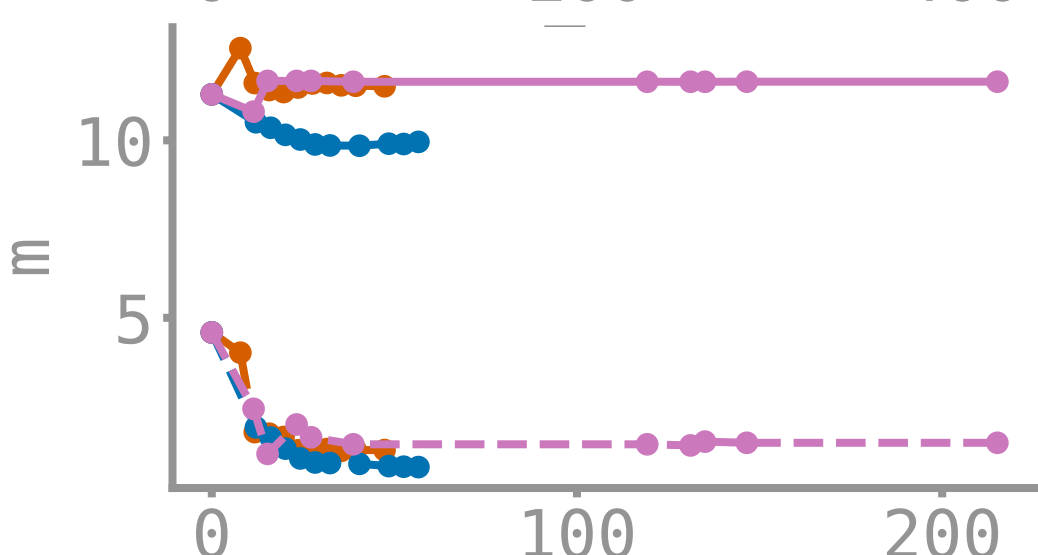
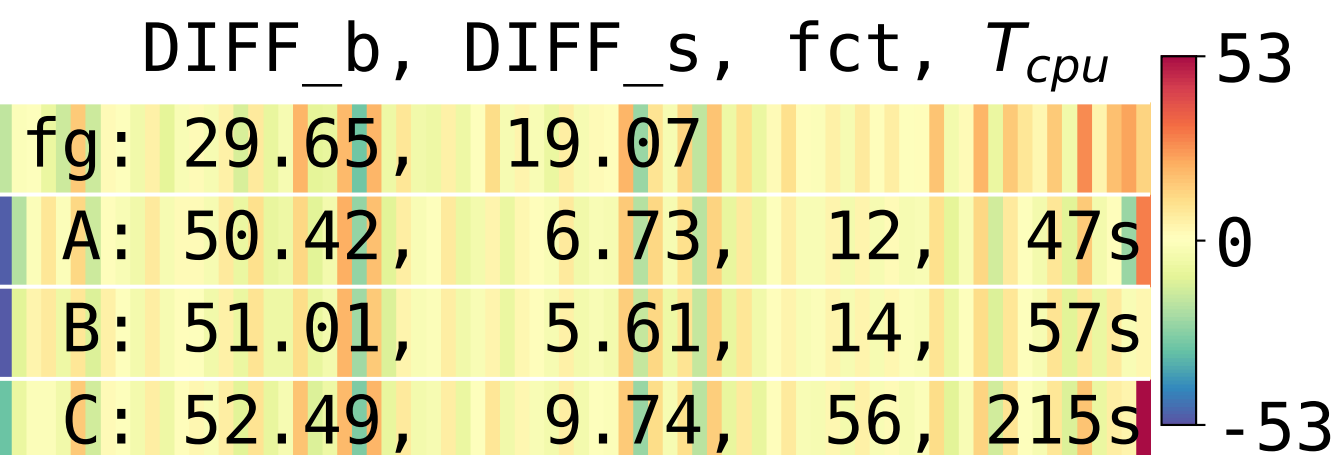
cliff wide top bed\_h



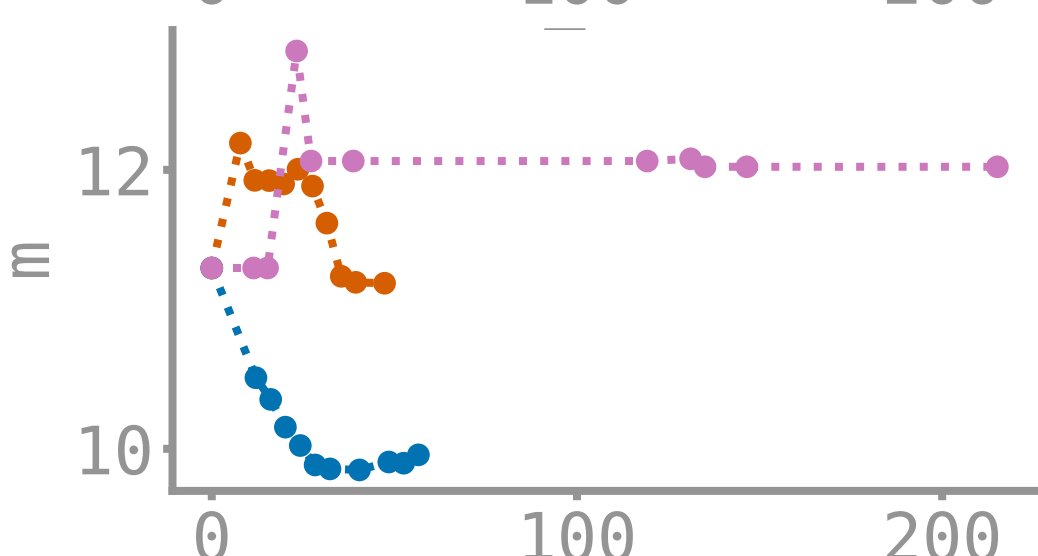
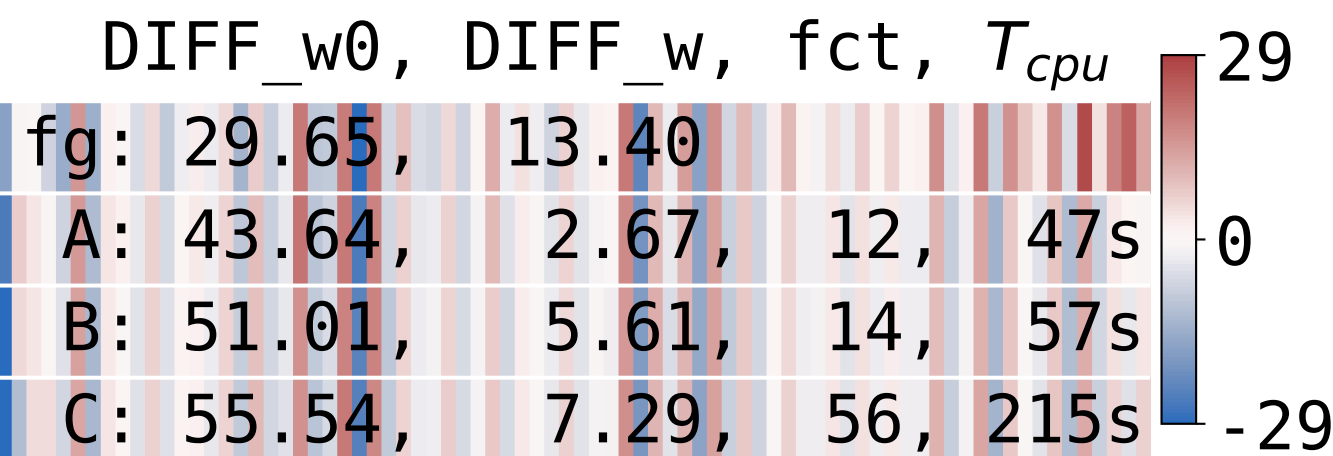
$w_0$



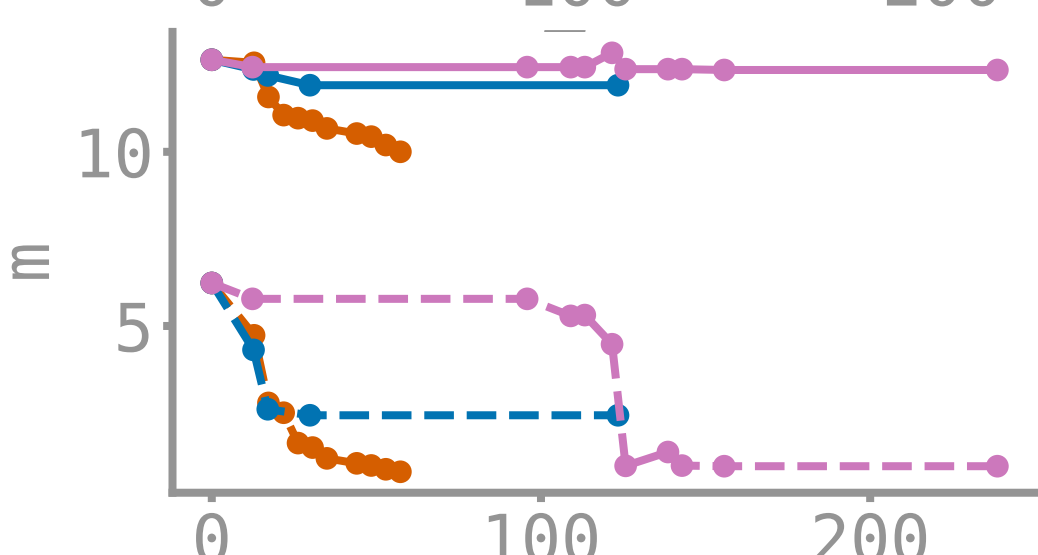
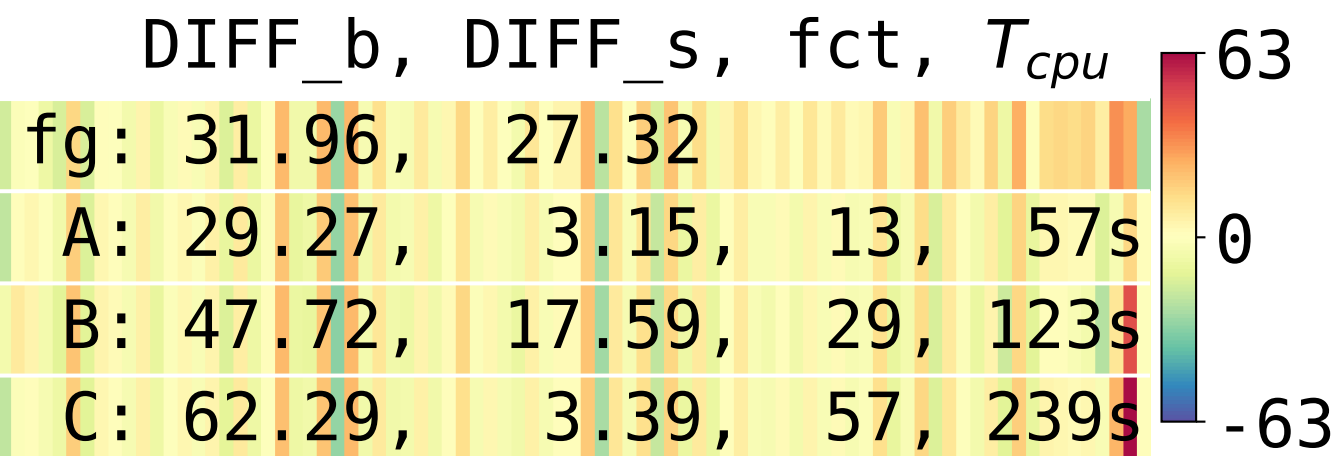
random constant bed\_h



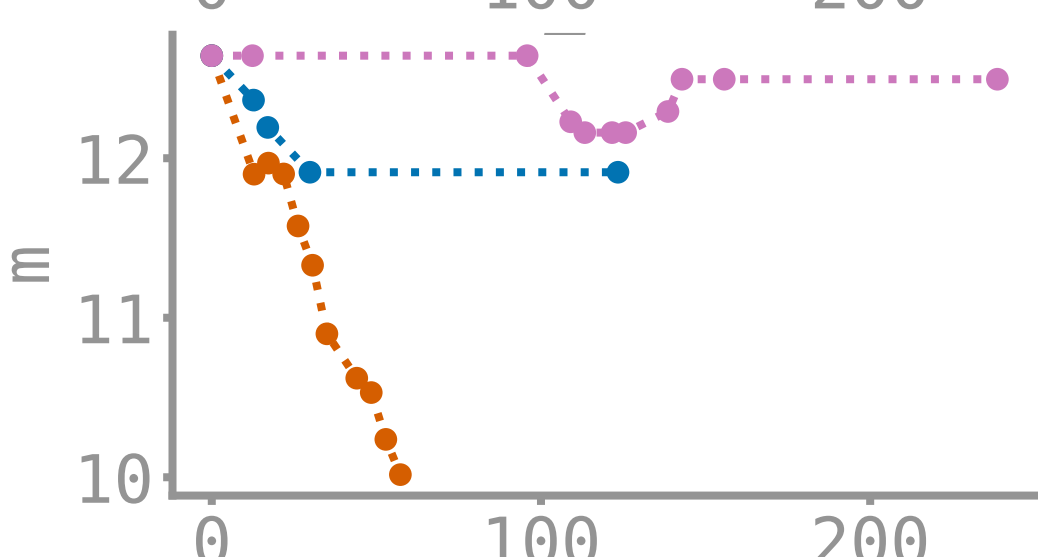
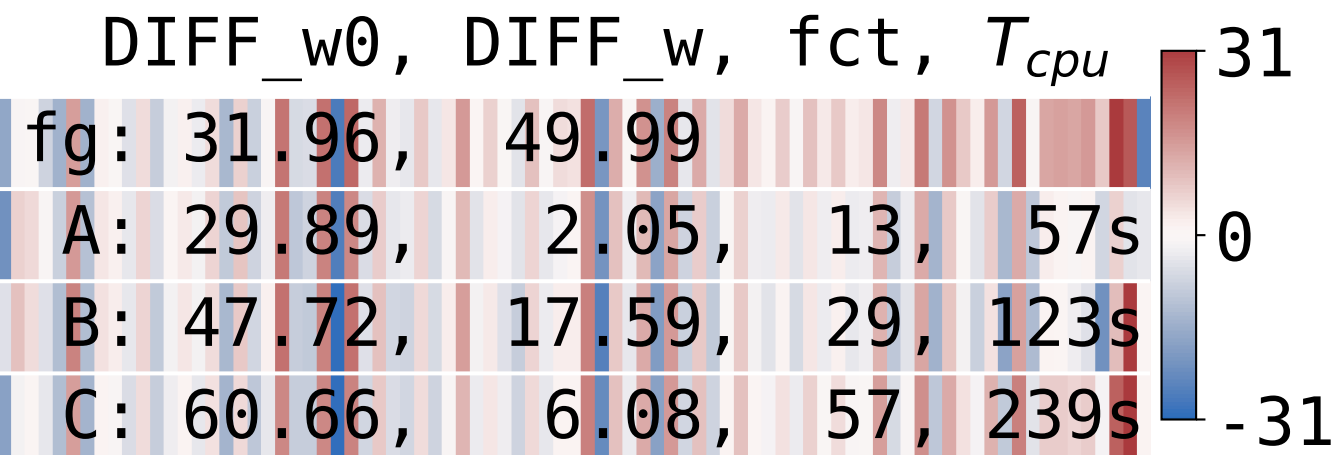
$w_0$



random wide top bed\_h



$w_0$



$T_{cpu}$