

**advancing** Experiments starting from an **initial glacier surface**, with regularisation parameters  $\lambda_0 = 1$  and  $\lambda_1 = 100$

bed shape shown

fg: first guess

— and A: 'explicit' approach

— and B: 'implicit' approach

— and C: 'iterative' approach

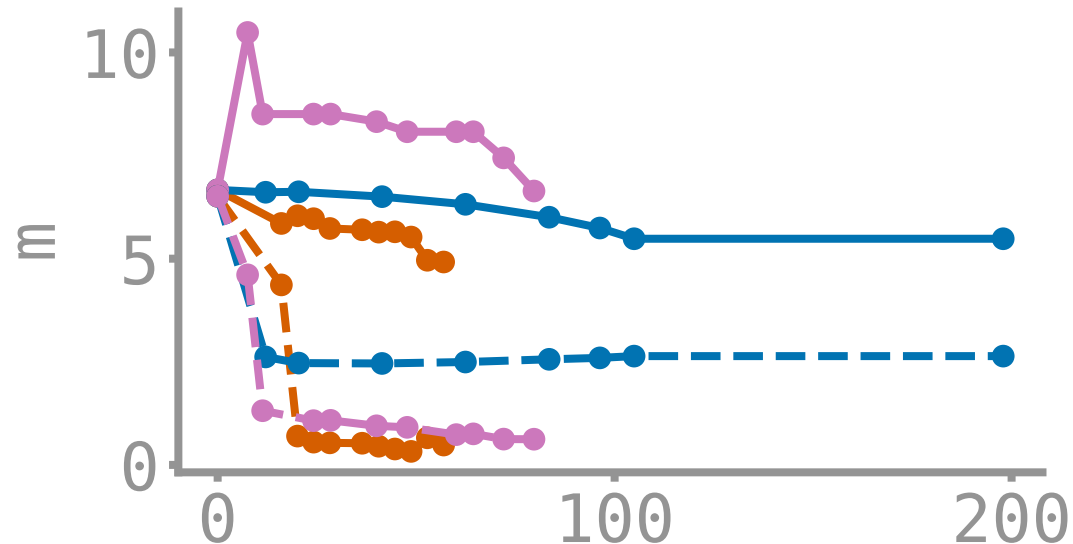
— RMSE of  $b$  and  $b_t$

--- RMSE of  $s_m^e$  and  $s_o^e$

... RMSE of  $Ps$  and  $Ps_t$

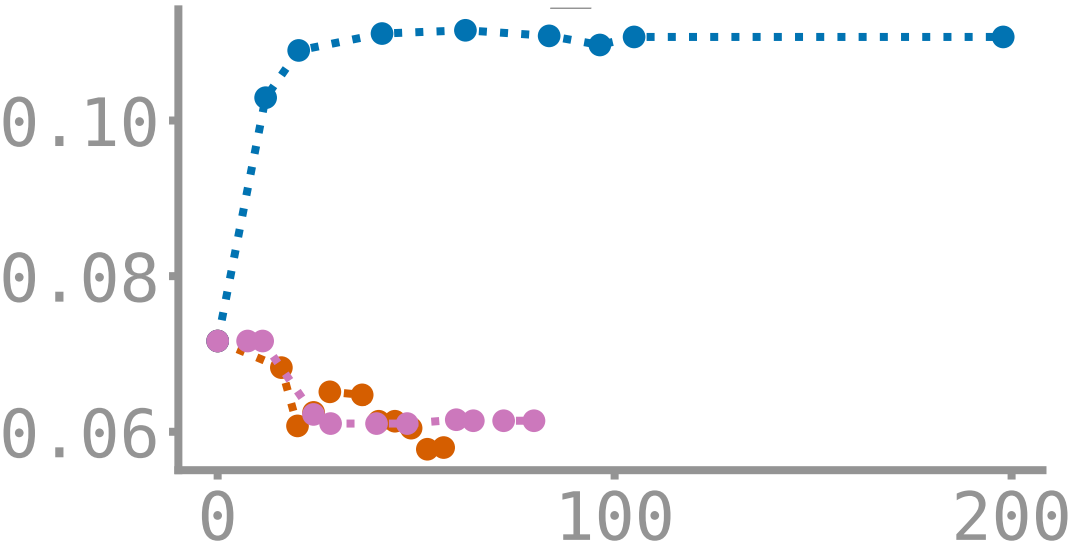
linear constant bed\_h

DIFF_b, DIFF_s, fct, $T_{cpu}$				
fg:	30.23,	36.81		
A:	34.07,	2.25,	14,	57s
B:	30.93,	17.33,	47,	198s
C:	44.96,	4.78,	20,	80s



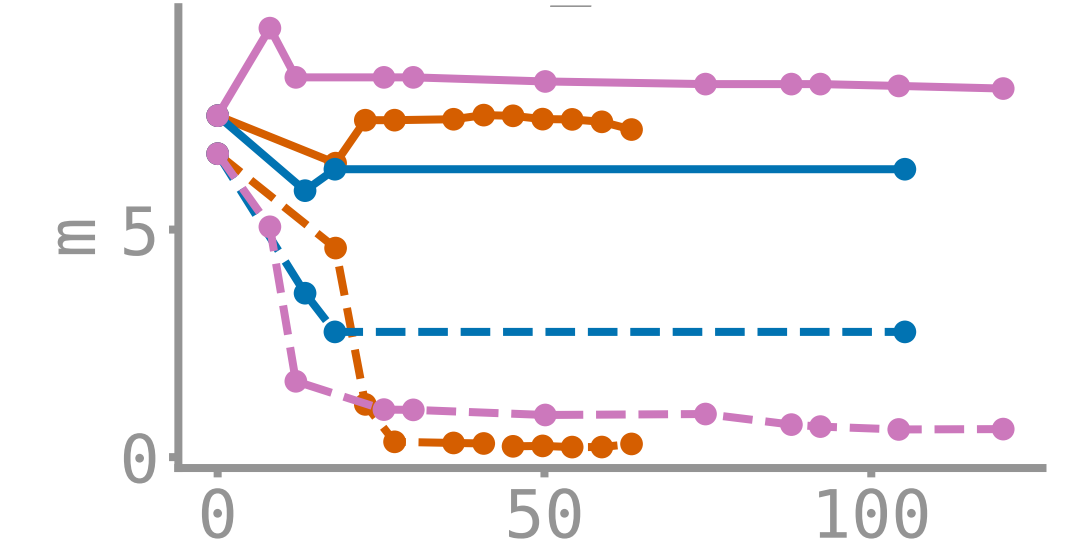
Ps

DIFF_Ps, DIFF_w, fct, $T_{cpu}$				
fg:	0.40,	11.86		
A:	0.39,	10.22,	14,	57s
B:	0.88,	4.68,	47,	198s
C:	0.41,	11.86,	20,	80s



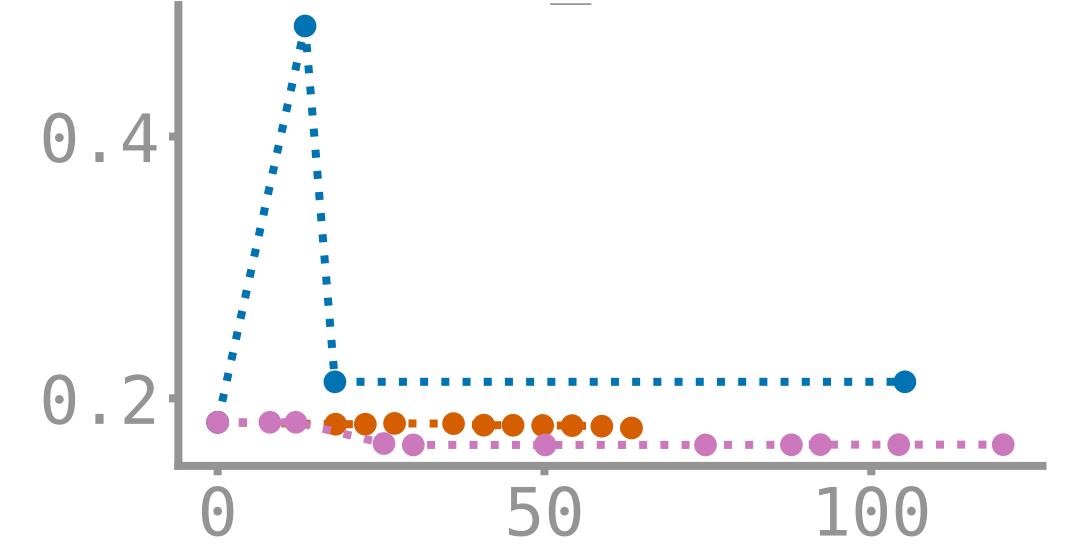
linear wide top bed\_h

DIFF_b, DIFF_s, fct, $T_{cpu}$				
fg:	32.55,	34.46		
A:	64.28,	1.93,	14,	63s
B:	55.90,	22.53,	23,	105s
C:	65.66,	3.89,	29,	120s



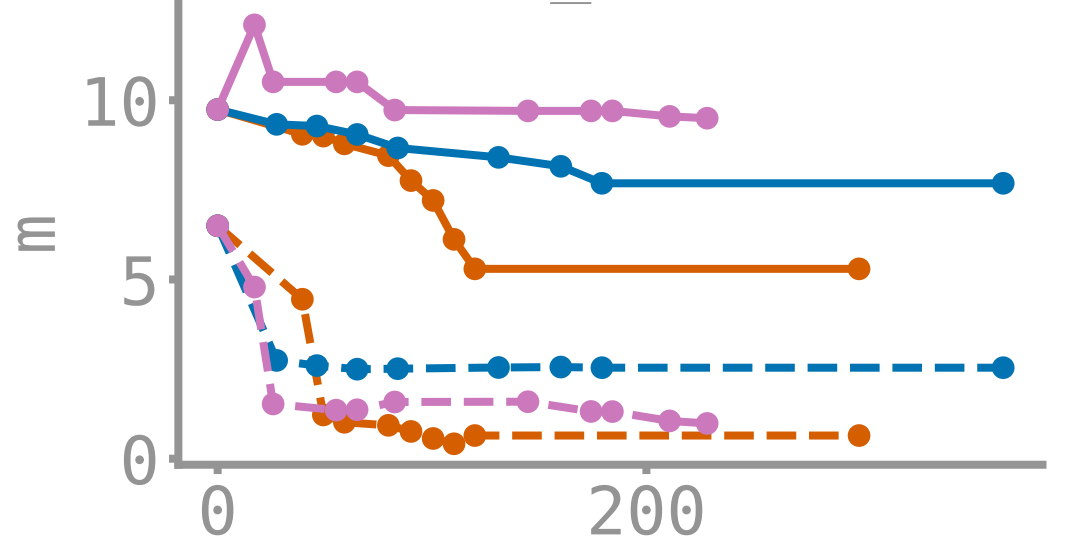
Ps

DIFF_Ps, DIFF_w, fct, $T_{cpu}$				
fg:	0.97,	11.41		
A:	0.97,	9.80,	14,	63s
B:	1.67,	3.58,	23,	105s
C:	0.97,	11.02,	29,	120s



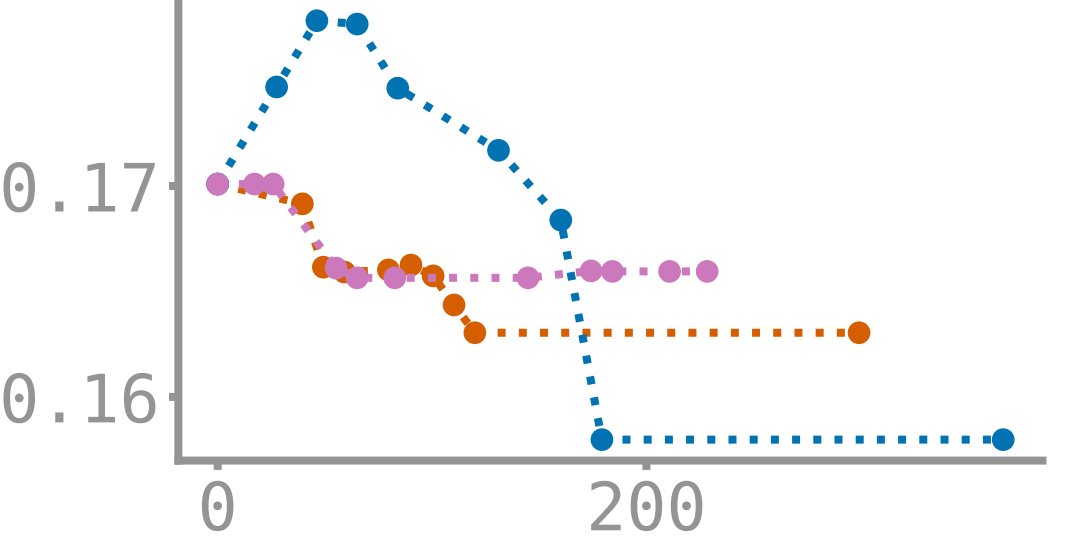
cliff constant bed\_h

DIFF_b, DIFF_s, fct, $T_{cpu}$				
fg:	43.66,	37.11		
A:	24.24,	3.07,	31,	299s
B:	29.52,	15.71,	39,	366s
C:	57.16,	5.27,	25,	228s



Ps

DIFF_Ps, DIFF_w, fct, $T_{cpu}$				
fg:	1.26,	11.19		
A:	1.26,	5.78,	31,	299s
B:	0.89,	3.14,	39,	366s
C:	1.27,	10.44,	25,	228s



$T_{cpu}$