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

fg: first guess
and A: at once approach
and B: calculated approach
and C: separated approach

RMSE of b and b_t
RMSE of s_m^e and s_o^e
RMSE of Ps and Ps_t

bed	shape	shown

cliff   wide top   bed_h

DIFF_b, DIFF_s, fct, T_{cpu}

fg:	46.59,	20.01		
A:	19.29,	2.67,	15,	125s
B:	46.14,	24.85,	25,	213s
C:	33.19,	4.11,	33,	251s

Ps

DIFF_Ps, DIFF_w, fct, T_{cpu}

fg:	1.21,	8.30		
A:	1.22,	4.48,	15,	125s
B:	23.06,	3.04,	25,	213s
C:	1.20,	4.66,	33,	251s

random   constant   bed_h

DIFF_b, DIFF_s, fct, T_{cpu}

fg:	37.45,	21.01		
A:	21.99,	2.80,	14,	51s
B:	26.58,	2.10,	16,	58s
C:	26.68,	4.05,	19,	63s

Ps

DIFF_Ps, DIFF_w, fct, T_{cpu}

fg:	1.46,	8.03		
A:	1.42,	4.90,	14,	51s
B:	1.33,	0.30,	16,	58s
C:	1.47,	5.14,	19,	63s

random   wide top   bed_h

DIFF_b, DIFF_s, fct, T_{cpu}

fg:	45.80,	22.35		
A:	25.89,	4.39,	16,	69s
B:	45.75,	20.00,	28,	121s
C:	27.12,	3.18,	30,	119s

Ps

DIFF_Ps, DIFF_w, fct, T_{cpu}

fg:	0.95,	7.53		
A:	0.96,	4.23,	16,	69s
B:	15.37,	2.68,	28,	121s
C:	1.21,	3.57,	30,	119s