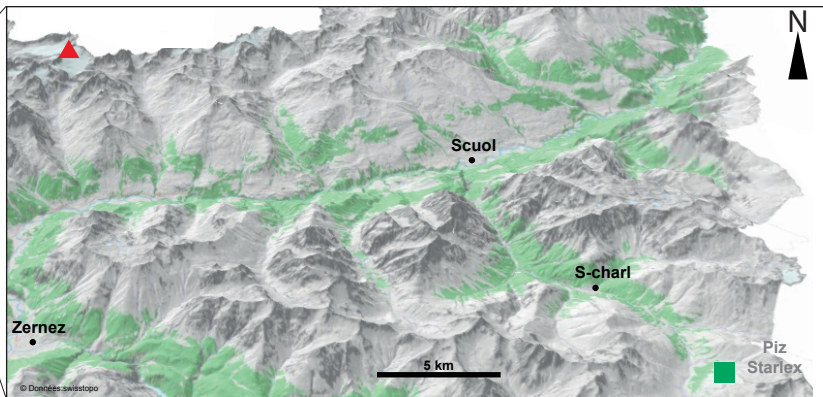
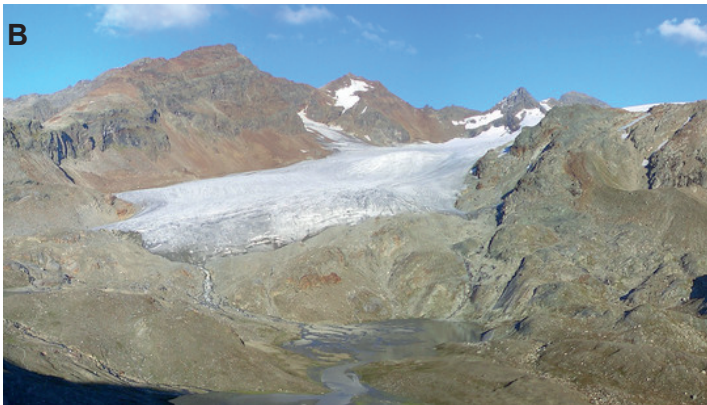
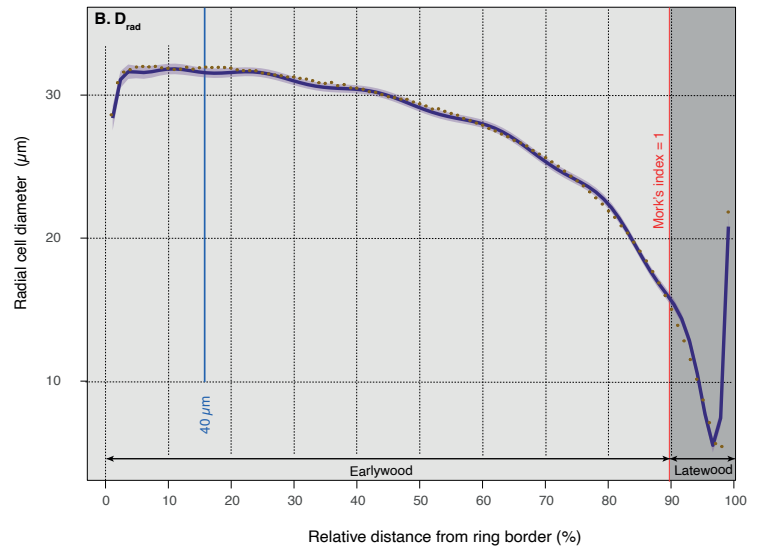
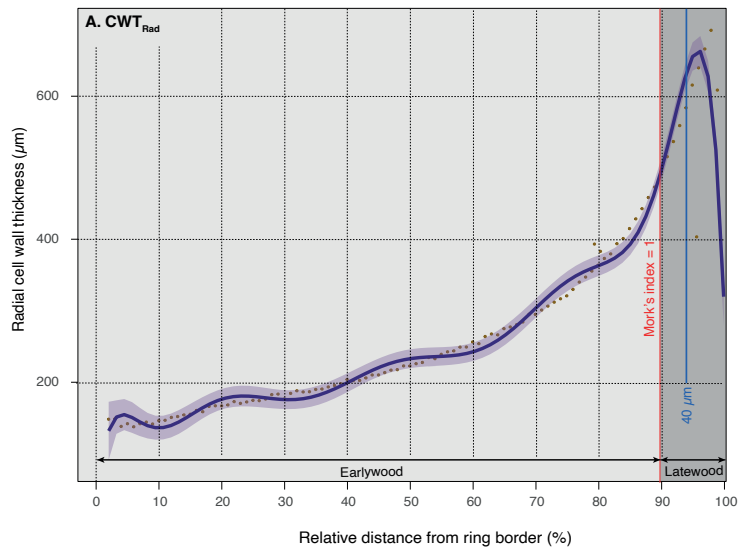


A

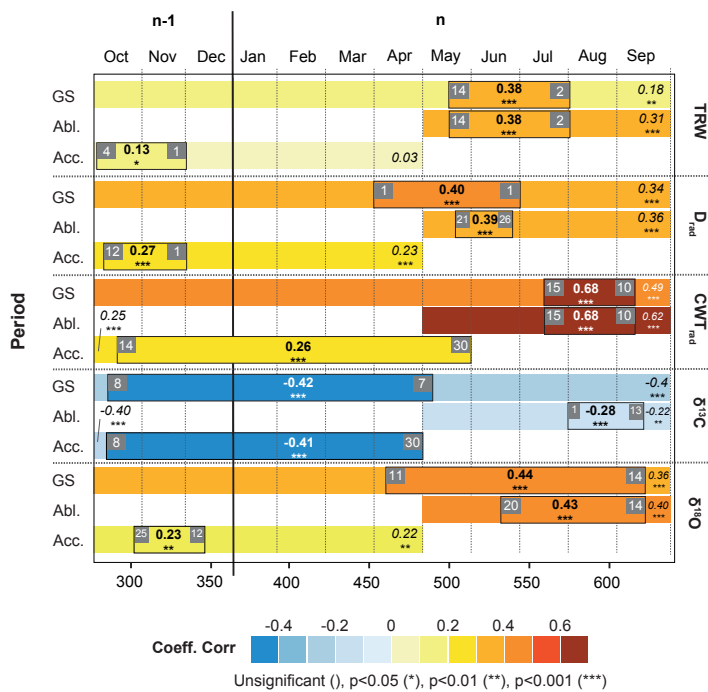
▲ Silvrettagletscher

■ God da Tamangur *P. cembra* forest

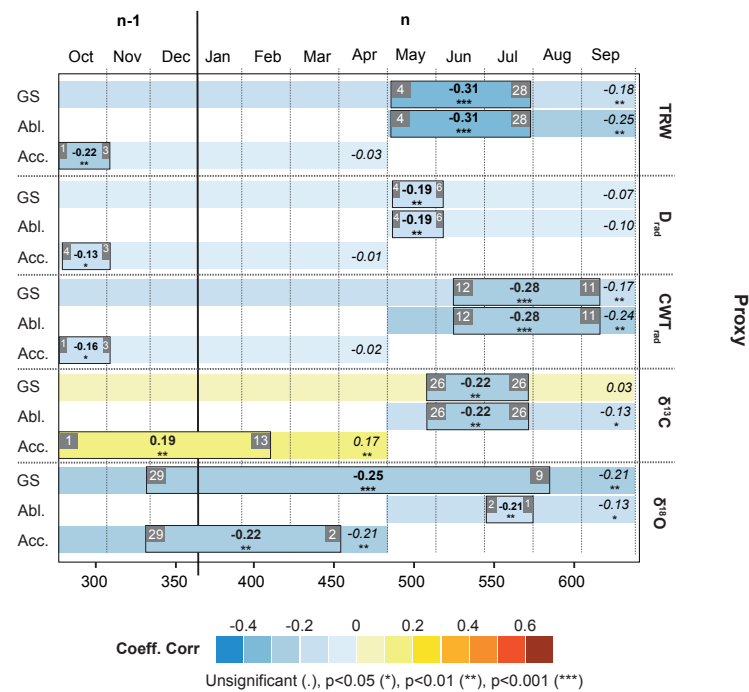
**B****C**



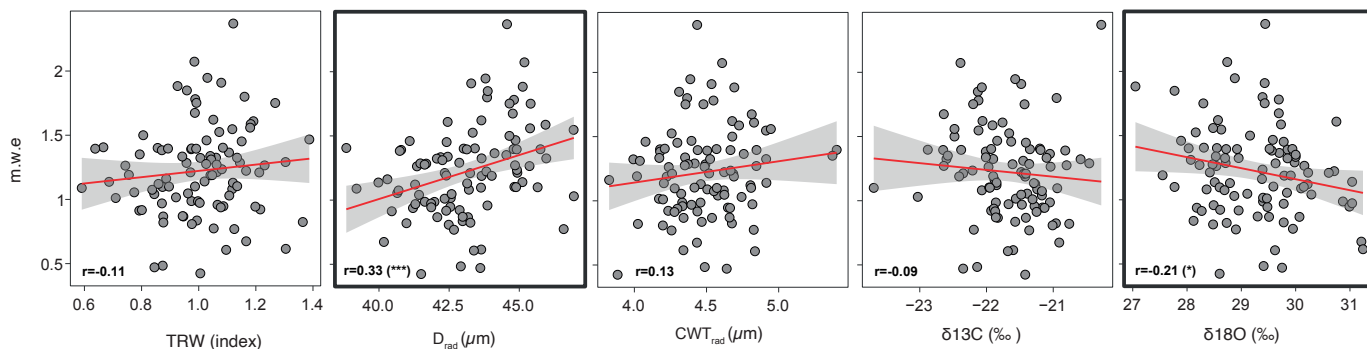
A. Temperature



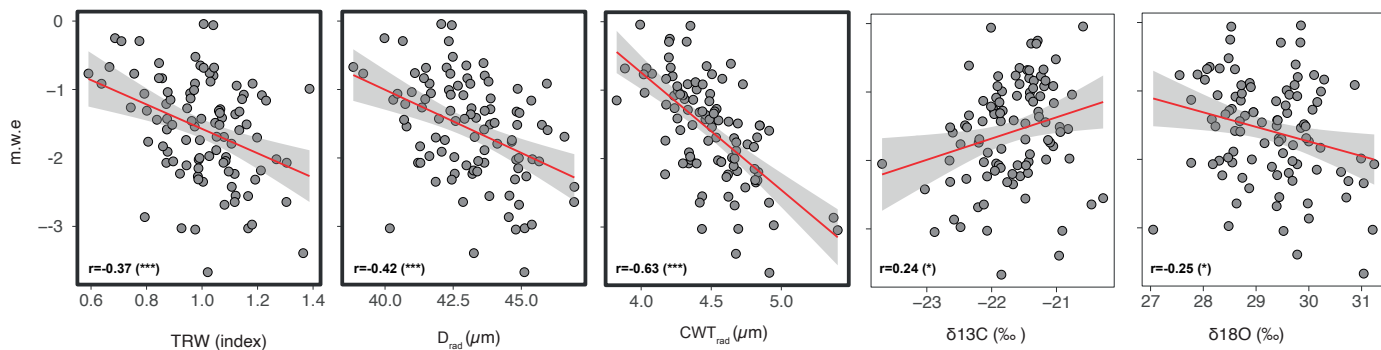
B. Precipitation

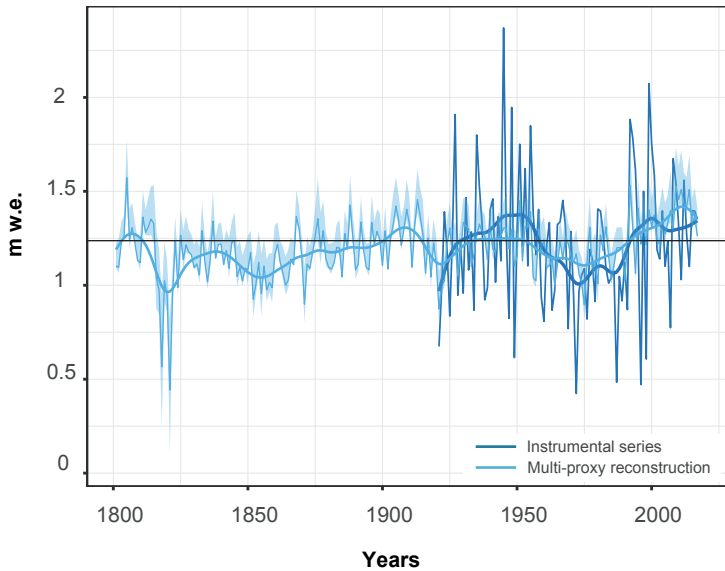
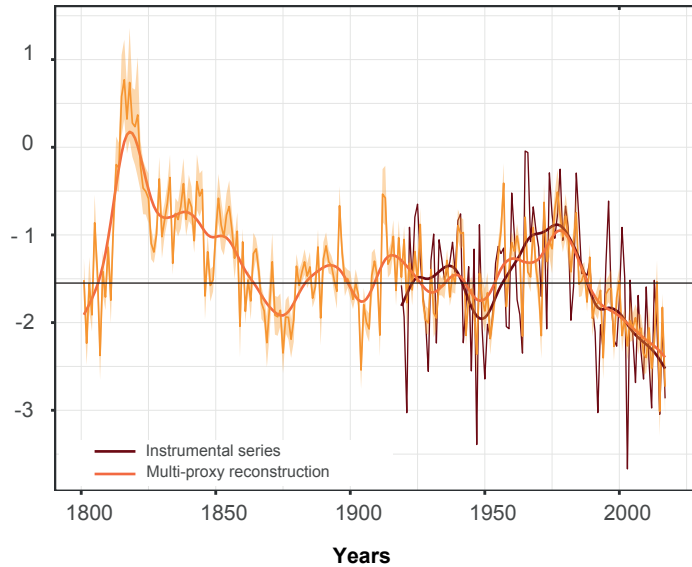


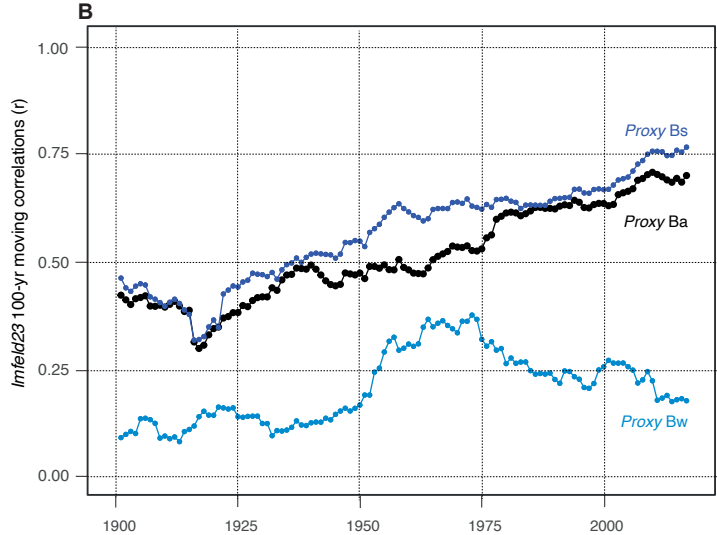
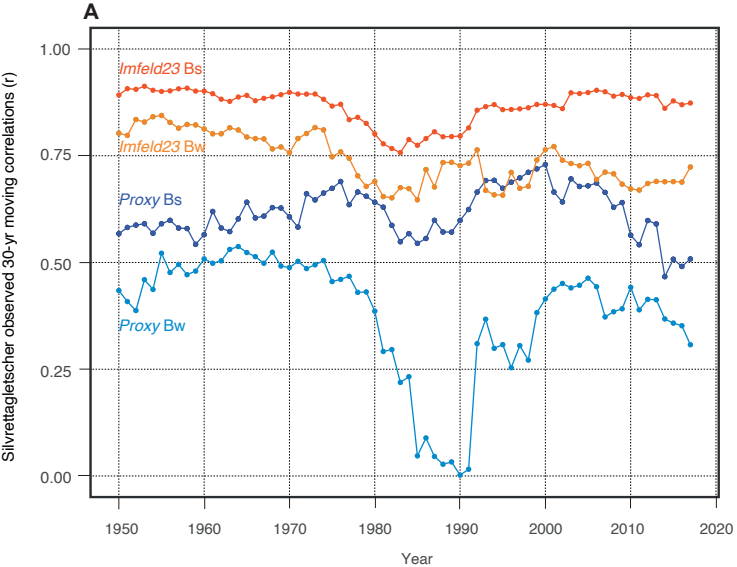
C. Winter mass balance

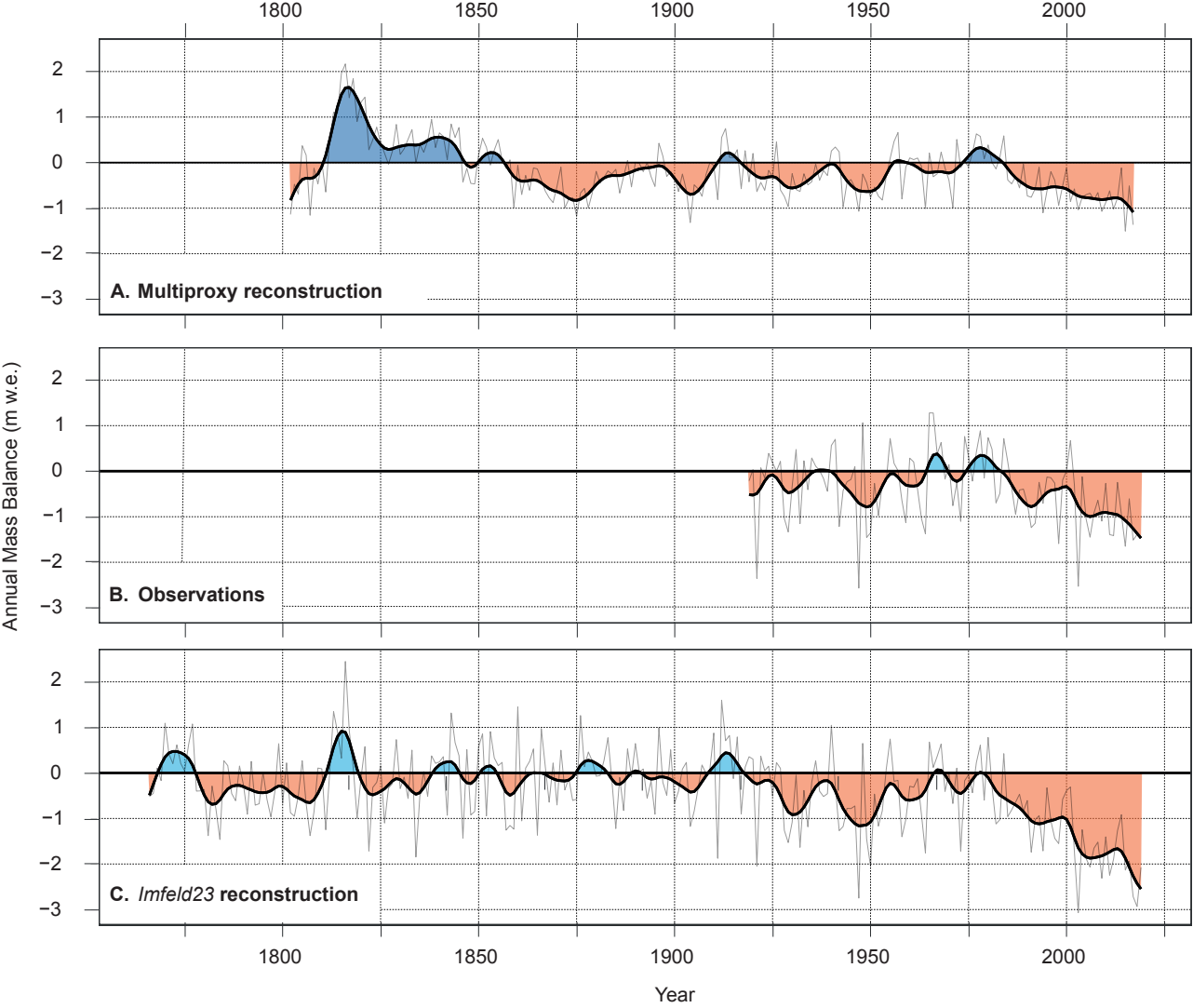


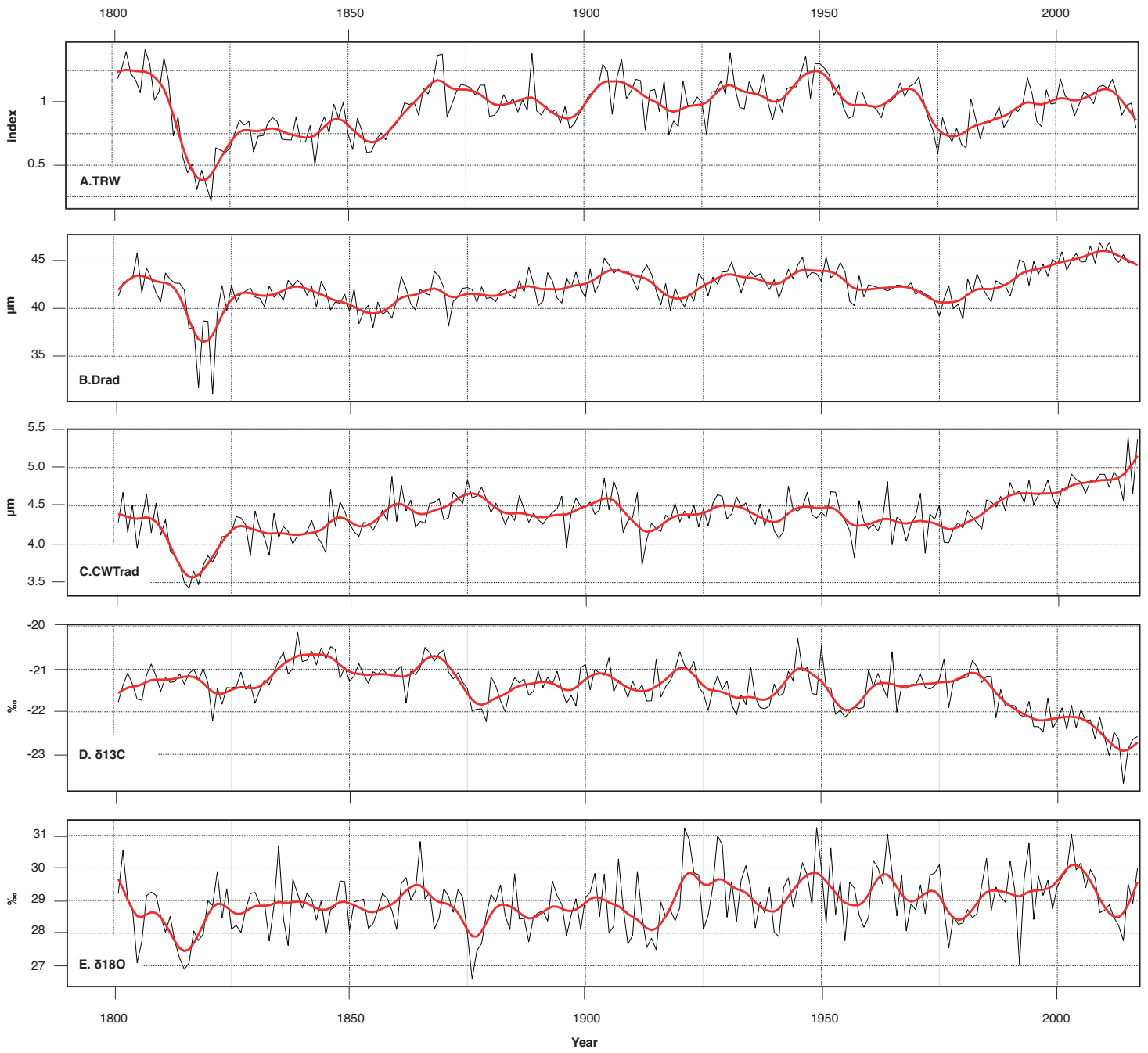
D. Summer mass balance



A. Winter mass balance**B. Summer mass balance**







Wood proxy	Bandwith (μm)	EPS	Rbar
Tree-ring width (TRW)		0.85	0.39
Radial diameter (D_{rad}) - Earlywood	40	0.75	0.16
Radial cell wall thickness (CW_{rad}) - Latewood	40	0.84	0.25
$\delta^{13}\text{C}$ (10-yr interval)		0.9	0.46
$\delta^{18}\text{O}$ (10-yr interval)		0.91	0.48

Glacier Mass Balance	Wood proxies	RMSE	r2	RE	CE
Winter Mass Balance (Bw)	Drad	[343.22-353.31] 345.38	[0.03-0.2] 0.1	[-0.12-0.16] 0.08	[-0.23-0.14] 0.04
	δ18O	[350.47-359.87] 352.44	[0.01-0.14] 0.06	[-0.10-0.10] 0.04	[-0.21-0.08] -0.001
	δ18O - Drad	[335.45-347.15] 338.47	[0.07-0.25] 0.15	[-0.11-0.20] 0.08	[-0.22-0.18] 0.06
Summer Mass Balance (Bs)	TRW	[701.07-721.41] 705.59	[0.05-0.26] 0.14	[-0.1-0.23] 0.12	[-0.19-0.20] 0.07
	Drad	[685.76-706.51] 690.2	[0.07-0.29] 0.17	[-0.08-0.27] 0.16	[-0.16-0.25] 0.12
	CWTrad	[585.93-602.33] 589.35	[0.28-0.51] 0.38	[0.18-0.51] 0.37	[0.12-0.5] 0.35
	δ18O	[728.86-755.31] 734.63	[0.01-0.18] 0.07	[-0.19-0.12] 0.04	[-0.29-0.1] -0.002
	TRW - Drad	[669.76-699.32] 677.34	[0.12-0.34] 0.16	[-0.09-0.3] 0.16	[-0.18-0.27] 0.12
	TRW - CWTrad	[555.33-576.75] 560.95	[0.35-0.58] 0.47	[0.21-0.56] 0.43	[0.15-0.55] 0.4
	TRW - δ18O	[689.24-719.44] 697.43	[0.08-0.31] 0.18	[-0.16-0.25] 0.11	[-0.25-0.23] 0.07
	Drad - CWTrad	[584.24-606.58] 589.88	[0.29-0.53] 0.41	[0.14-0.52] 0.35	[0.08-0.5] 0.33
	Drad - δ18O	[657.71-687.24] 665.3	[0.15-0.38] 0.25	[-0.07-0.33] 0.19	[-0.15-0.31] 0.15
	CWTrad - δ18O	[584.65-609.98] 591.26	[0.30-0.52] 0.41	[0.11-0.5] 0.34	[0.08-0.48] 0.32
	CWTrad - TRW - Drad	[471.23-601.00] 537.12	[0.37-0.6] 0.49	[0.19-0.57] 0.43	[0.14-0.55] 0.4