

Table S1. Trends and Hurst exponents of 16 climate stations snow depth over the period of 1979-2018 and the forecasts and trends in future.

Station	Y	X	Trend			Hurst		
			a	R ²	P	Hurst	a	R ²
50425	50.25	120.18	0.08	0.02	0.42	0.35	1.35	0.75
50431	50.78	121.52	0.08	0.02	0.37	0.28	1.36	0.77
50434	50.48	121.68	0.28	0.18	0.01	0.39	1.09	0.92
50445	50.58	123.73	-0.32	0.11	0.04	0.44	1.21	0.94
50514	49.58	117.32	0.17	0.16	0.01	0.39	1.34	0.86
50524	49.32	119.43	0.37	0.29	0.00	0.29	1.43	0.61
50525	49.15	119.75	0.29	0.27	0.00	0.36	1.36	0.86
50526	49.28	120.70	0.60	0.41	0.00	0.40	1.24	0.89
50527	49.25	119.70	0.35	0.32	0.00	0.30	1.48	0.81
50548	49.20	123.72	-0.02	0.00	0.85	0.24	1.63	0.47
50603	48.68	116.81	0.10	0.08	0.08	0.31	1.37	0.73
50618	48.22	118.27	0.26	0.21	0.00	0.25	1.51	0.65
50632	48.77	121.92	0.20	0.12	0.03	0.42	1.22	0.89
50639	48.00	122.73	0.17	0.12	0.03	0.35	1.19	0.85
50645	48.48	124.48	0.18	0.13	0.03	0.30	1.39	0.72
50647	48.13	123.48	0.23	0.17	0.01	0.37	1.16	0.82

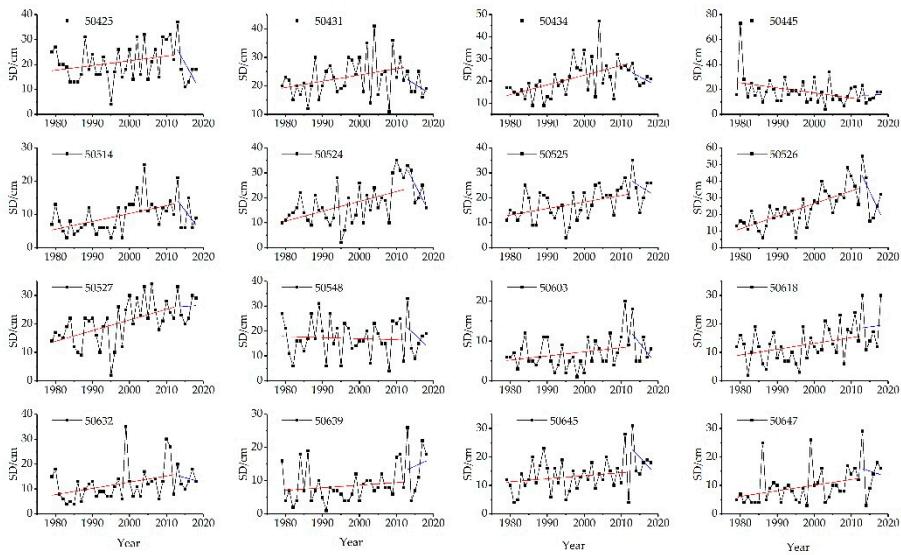


Figure S1. Trends of snow depth over the period of 1979-2012, 2013-2018 in the study area.

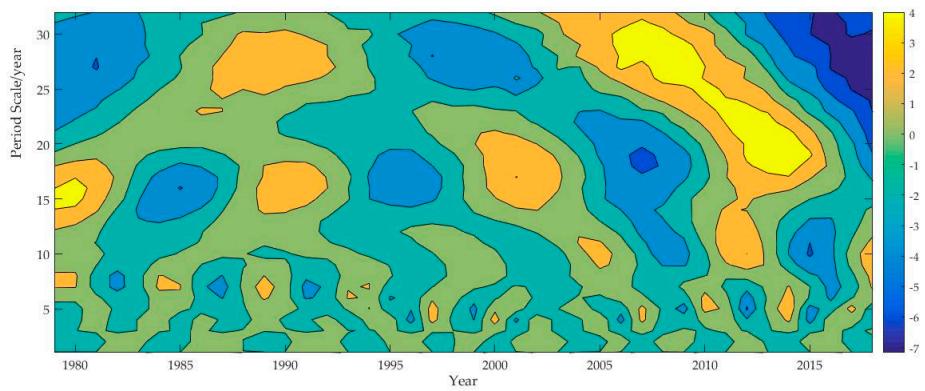


Figure S2. 16 stations Morlet wavelet of snow depth in Hulnbuir during 1979-2018.