

Table S1 | Time series length used for Fourier analysis

Altitude (m)	Parent material	Total monitoring duration	For Fourier analysis		duration (mo)	Time points (N)
			Start (year/month)	End (year/month)		
<i>Climate site</i>			(for air temperature*)			
3270		1996/2 – 2011/12	2004/4	2011/12	92.0	184
2700		1996/2 – 2011/3	1996/5	2002/7	74.5	149
1560		1996/2 – 2012/2	2003/1	2008/8	68.0	136
550		1996/2 – 2007/2	1996/5	2002/7	74.5	149
<i>Litter site</i>			(for leaf and flower litter)			
700	Sedimentary	1996/4 – 2006/3	1996/4	2006/3	120.0	240
1700	Sedimentary	1996/4 – 2012/5	1996/4	2012/5	193.5	387
2700	Sedimentary	1996/4 – 2006/3	1996/4	2006/3	120.0	240
3100	Sedimentary	1996/4 – 2006/3	1996/4	2006/3	120.0	240
700	Ultrabasic	1996/4 – 1999/7	1996/4	1999/7	39.5	79
1700	Ultrabasic	1996/4 – 2006/3	1996/4	2006/3	120.0	240
2700	Ultrabasic	1996/4 – 2006/3	1996/4	2006/3	120.0	240
3100	Ultrabasic	1996/4 – 2006/3	1996/4	2006/3	120.0	240
1700	Quaternary	1996/4 – 2012/5	1996/4	2012/5	193.0	386

*The duration may slightly change depending on meteorological variables.