

Identification of mast years in monitoring data and lake sediment records (Figure S1), for beech (left) and spruce (right).

For beech, years with a flowering index above 2.5, a fructification index above 0.3 or a pollen index above 250 are considered to be years with exceptionally intense flowering (indicated with 'x'). For spruce, only the flowering index is available. Here, those years are indicated that show widespread intense flowering, i.e. in all three forest regions of the study area, and those with intense flowering in only one or two forest regions.

In the lake records, the years correctly identified as pollen mast years using the 'higher than neighbour' approach are also indicated with 'x', false negatives with 'n', and false positives with 'p'. Grey and green filling indicate the period covered by each data set.

Tabelle Paper

Year	monitoring beech			cores beech			flowering spruce		cores spruce	
	Flwl >= 2.5	Frul >= 0.3	Pl >= 250	TSK15-K1	TSK15-K7	ARS17A	Widespread	regional	TSK15-K7	ARS17A
2018								x		
2017								x		
2016	x	x	x			x		x		p
2015										x
2014	x	(x)	x	n		n	x	x		
2013								x		
2012										
2011	x	x	x	x		x	x			x
2010										
2009	x	x	x	n		x	x			x
2008								x		
2007	x	x	x	n	n	n			p	
2006	x	(x)	x	n	x	x	x		x	x
2005									p	
2004	x	(x)	x	x	x	x	x		n	n
2003								x	p	x
2002						p				
2001										
2000	x	(x)	x	x	x	x		x	p	
1999										
1998	x	x	x	x	n	n	x		x	x
1997										
1996									p	
1995	x	x	x	x	x	x				
1994										
1993										p
1992	x	x		x	x	x	x		n	n
1991										
1990		x	x	x	n	x	(x)	x	x	x
1989				x	x	x				
1988										
1987			x	n	n	x				
1986				p						
1985										
1984										
1983		x	x	n	x	x			x	x
1982										
1981						p				
1980									x	

Figure S1. Identification of mast years in monitoring data and lake sediments.