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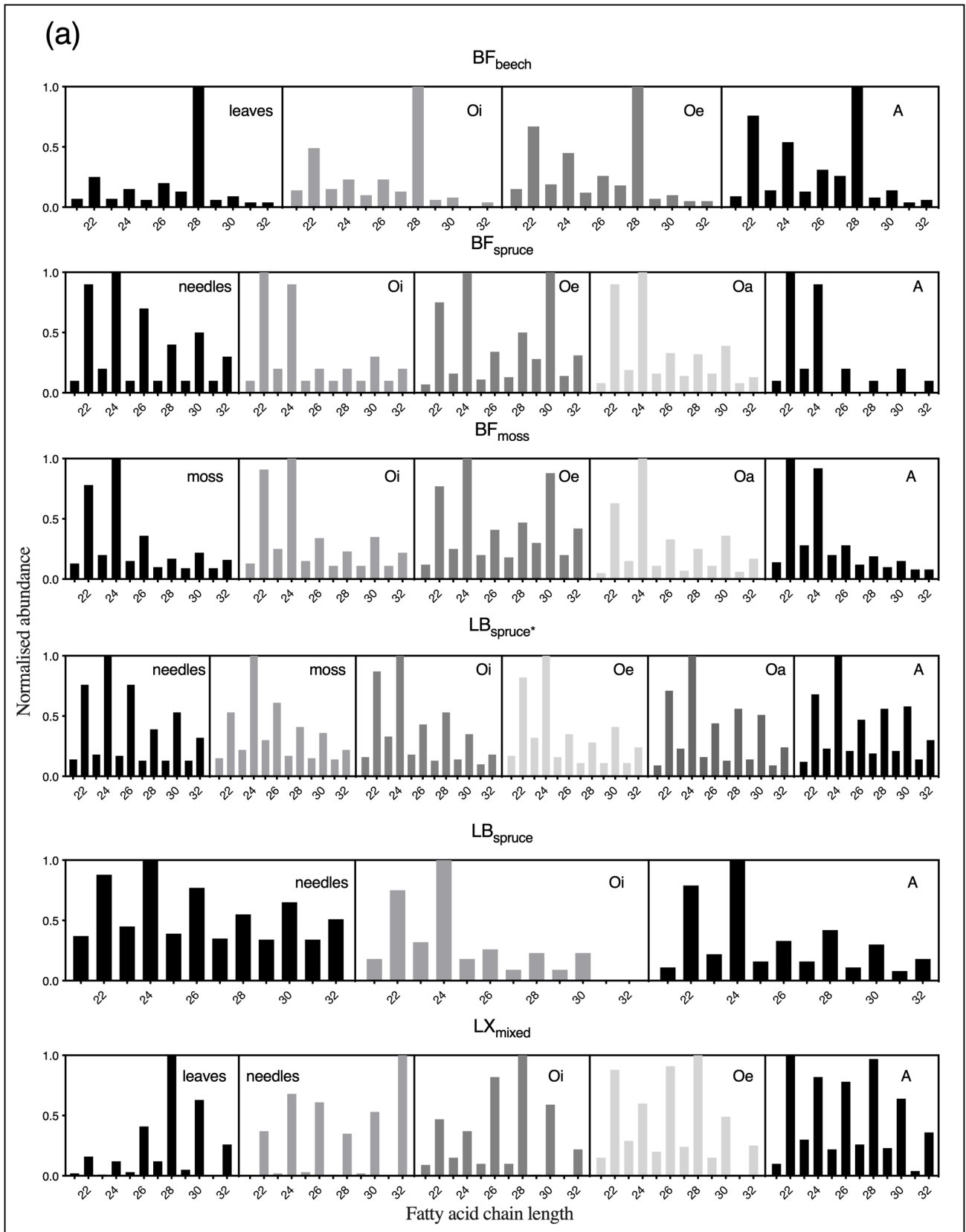
Supplement of

**Understanding the effects of early degradation on isotopic tracers:
implications for sediment source attribution using
compound-specific isotope analysis (CSIA)**

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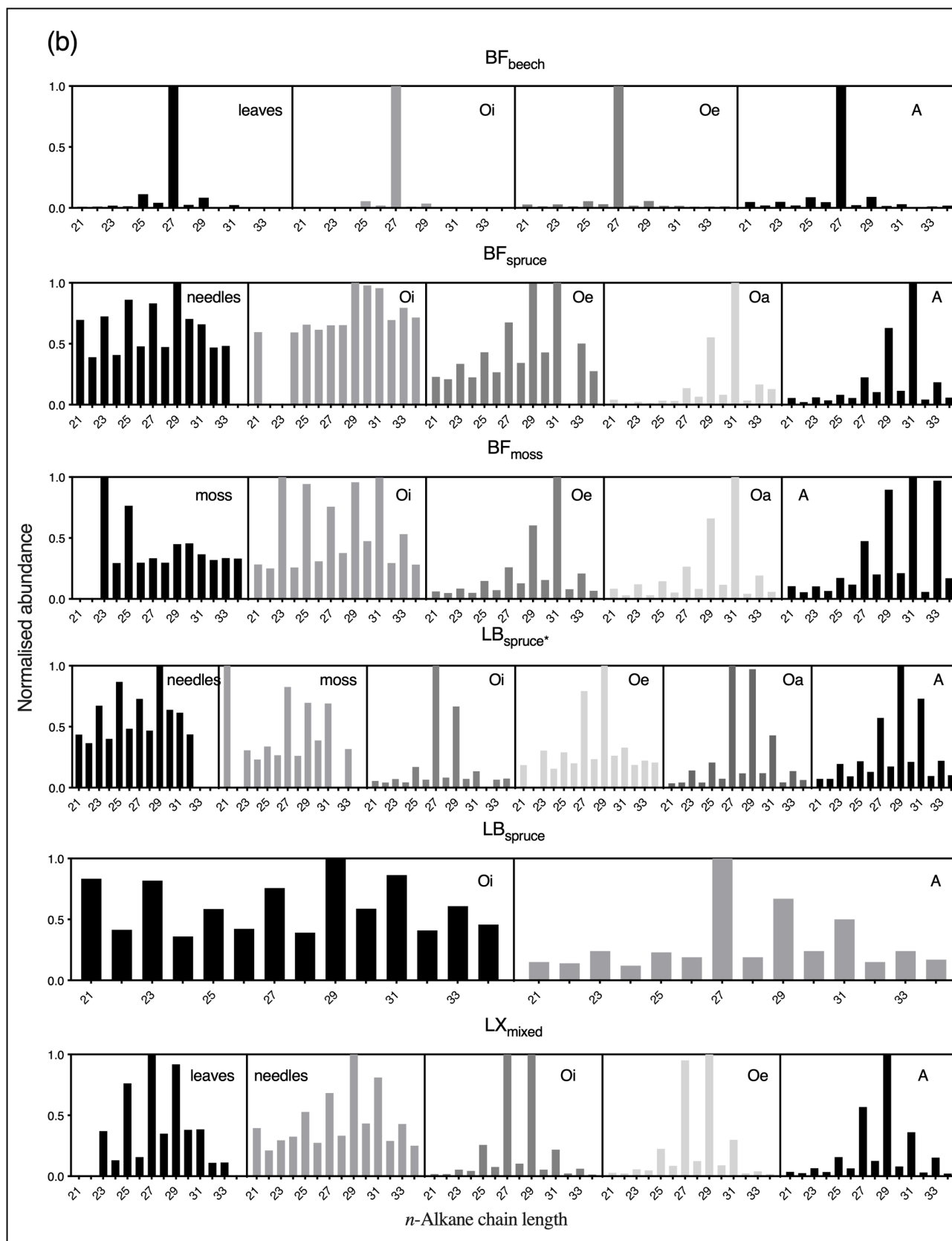


Figure S1: Distribution patterns of (a) fatty acids and (b) *n*-alkanes normalised to the most abundant compound. Abbreviations: Black Forest (BF), Lake Baldegg (LB), Upper Sûre Lake catchment-Luxembourg (LX).

Table S1: Additional characteristics of the investigated sites.

Site/sub site no.	Name	GPS co-ordinates	
Site 1	BF _{beech}	47° 39' 43" N	7° 46' 58" E
Site 2a	BF _{spruce}	47° 51' 51" N	8° 6' 10" E
Site 2b	BF _{moss}	47° 51' 51" N	8° 6' 10" E
Site 3	LB _{spruce*}	47° 10' 5" N	8° 15' 33" E
Site 4	LB _{spruce}	47° 9' 59" N	8° 15' 45" E
Site 5	LX _{mixed}	49° 51' 57" N	5° 51' 27" E