

New Phytologist Supporting Information

Article title: **Perception of photoperiod in individual buds of mature trees regulates leaf-out**

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Fig. S1 Treatment of twigs with light tight bags, to ensure an 8 h photoperiod and translucent bags as control. From 1 Jan 2014 until day of leaf-out in the respective species, twigs were covered daily with bags from 17:00 h until 09:00 h.



Fig. S2 Bud development of *Aesculus hippocastanum* (on 3 April 2014) and *Fagus sylvatica* (on 22 April 2014) on mature trees kept under 8 h day length (left) and naturally increasing day length (right). For photoperiod treatment, light-tight and translucent (control) bags were placed around the twigs every day at 17:00 h and removed the next morning at 09:00 h from 1 Jan 2014 until day of leaf-out in the respective species.



Fig. S3 Transmission spectra of single bud scales of *Aesculus hippocastanum*, *Fagus sylvatica* and *Picea abies*.

