**Description of data**

species: oak (pedunculate) or frass.

phenology lower: The lower interval to the phenological observation. For oak this is identical to the upper observation. Oak = first leafing date. Frass = peak frass date. All phenology measures are in ordinal days.

phenology upper: The upper interval to the phenological observation. For oak this is identical to the lower observation.

mean phenology: The mean of the lower and upper phenology interval.

year: The year in which an observation was made.

latitude: In units of decimal °N.

longitude: In units of decimal °E.

mean centre latitude: Latitudinal data after mean centering with respect to a larger dataset including the first egg dates of blue tits, great tits and pied flycatchers.

grid 50km = allocation of observations into 50km x 50km grid cells based on northings and eastings.

grid 5km = allocation of observations into 5km x 5km grid cells based on northings and eastings.

tray = unique identifier for each tray used for frass collection. Oaks are recorded as NA.