	Grassland	Savannah-like grassland	Deciduous broadleaf forest	Agricultural soybean field	Evergreen needleleaf forest	Boreal evergreen needleleaf forest	Temperate decidu- ous broadleaf forest
Country	Austria	Spain	Denmark	Italy	Estonia	Finland	United States
Sampling site	Neustift	Las Majadas del Tiétar CES	Sorø	Rivignano	Järvselja	Hyytiälä	Harvard
ID	AT-NEU	ES-LMA	DK-SOR	IT-CRO	ET-JA	FI-HYY	US-HA
Coordinates	4 7°07′ N, 11°19′ E	3 9°56′ N, 5°46′ W	5 5°29′ N, 11°38′ E	45°52′ N, 13°05′ E	5 8°16′ N, 27°18′ E	<mark>6</mark> 1.85° N, 24.29° E	42.54° N, 72.17° W
Climate	Humid continental	Mediterranean	Temperate maritime	Humid subtropical	Temperate	Boreal	Cool, moist temperate
Soil type	Fluvisol	Abruptic Luvisol	Luvisols or Chernozems	Silt loam	Haplic Gleysol	Haplic Podzol	Podzol and Regosol
Dominant vegetation	Graminoids: Dactylis glomerata, Festuca pratensis Forbs: Ranunculus acris, Taraxacum officinale	Tree: Quercus ilex Grass: Vulpia bromoides	European beech (Fagus sylvatica)	Soybean	Norway spruce (Picea abies)	Scots pine (Pinus sylvestris)	Red oak (Quercus rubra), red maple (Acer rubrum), hemlock (Tsuga canadensis)
ORCHIDEE PFT representation	100 % temperate natural grassland (C ₃) (PFT 10)	20 % temperate broadleaf evergreen (PFT 5), 80 % temperate natural grassland (C ₃) (PFT 10)	80 % boreal broadleaf summergreen (PFT 8), 20 % boreal natural grassland (C3) (PFT 15)	100 % C3 <mark>158</mark> crops (PFT 12)	50 % boreal needle- leaf evergreen (PFT 7), 40 % boreal broadleaf summergreen (PFT 8), 10 % boreal natural grassland (C ₃) (PFT 15)	80 % boreal needle- leaf evergreen (PFT 7), 20 % boreal natural grassland (C ₃) (PFT 15)	80 % temperate broadleaf summergreen (PFT 6), 20 % of temperate natural grassland (C ₃) (PFT 10)
References	Hörtnagl et al. (2011), Hörtnagl and Wohlfahrt (2014), Spielmann et al. (2019), Kitz et al. (2020)	Lopez-Sangil et al. (2011), El-Madany et al. (2018), Weiner et al. (2018), Spielmann et al. (2019), Kitz et al. (2020)	Pilegaard et al. (2011), Wu et al. (2013), Brændholt et al. (2018), Spielmann et al. (2019), Kitz et al. (2020)	Spielmann et al. (2019)	Noe et al. (2011, 2015), Kitz et al. (2020)	Kolari et al. (2009), Sun et al. (2018)	Urbanski et al. (2007), Wehr et al. (2017)

8