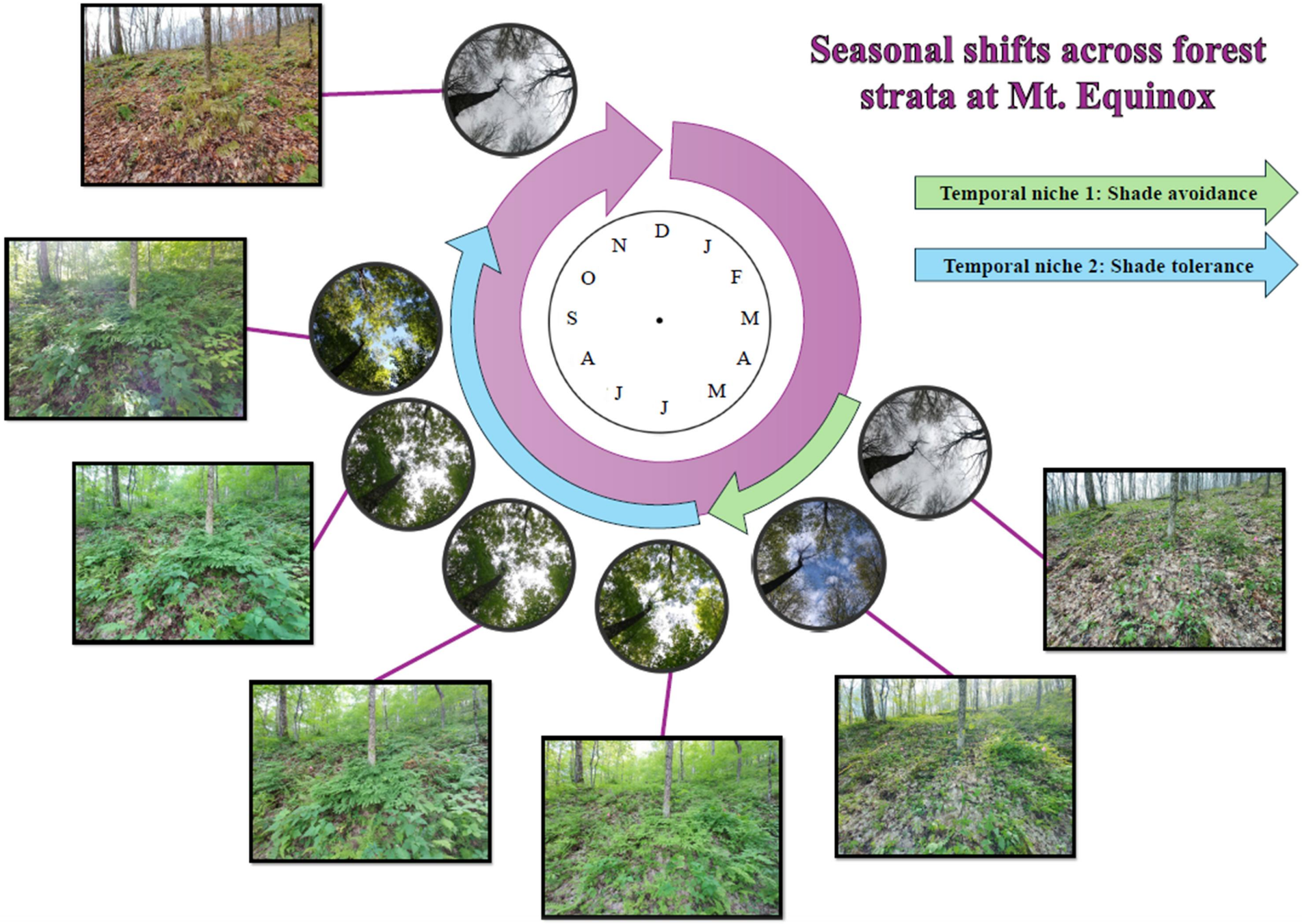
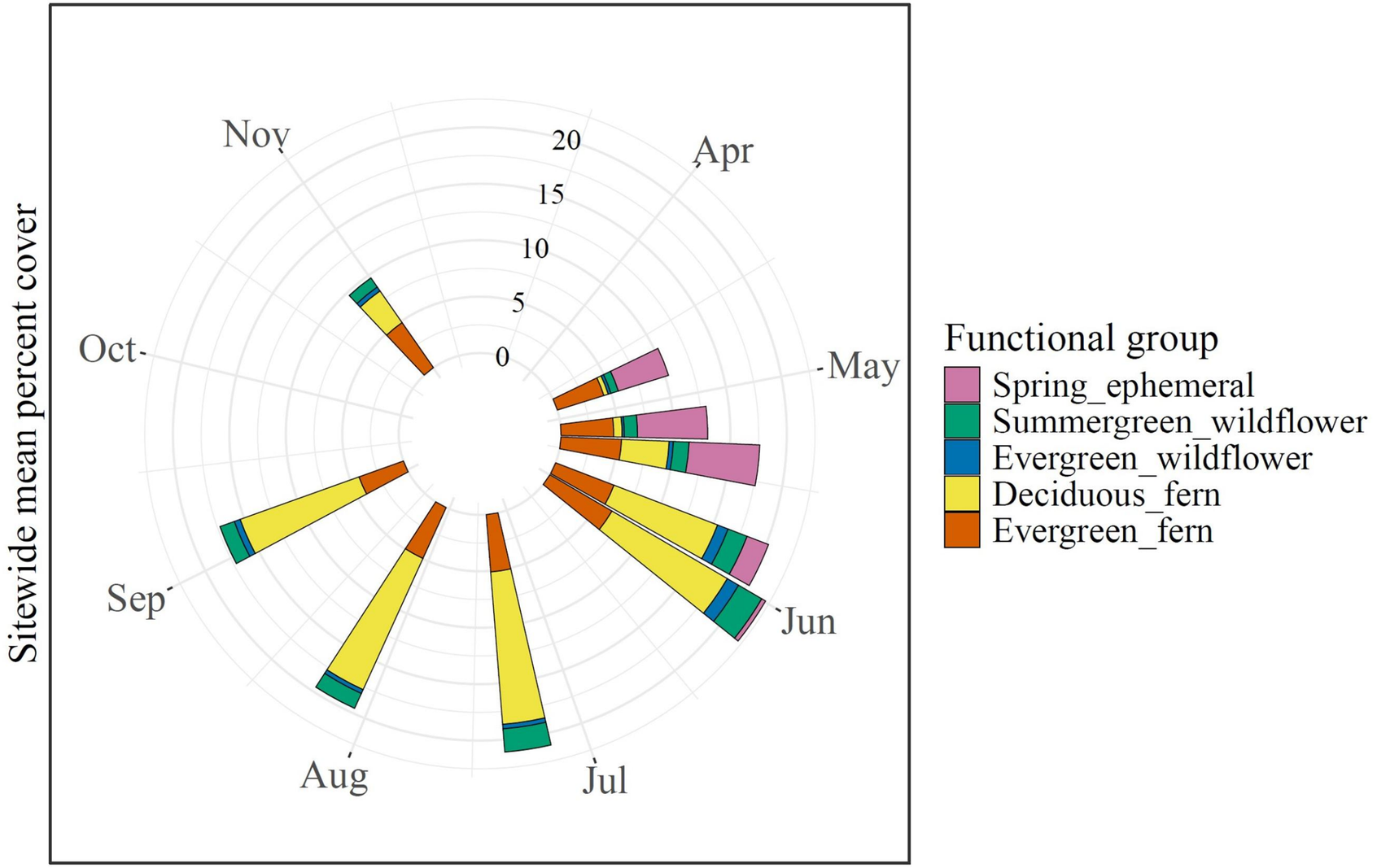
Seasonal shifts across forest strata at Mt. Equinox



Seasonal context for herbaceous phenology



Summer-green wildflowers

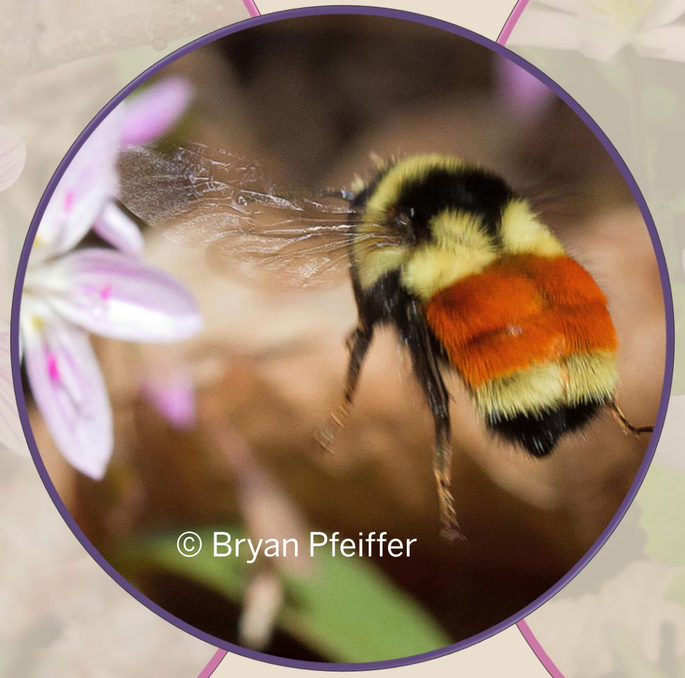
Trillium erectum
(red trillium)

Caulophyllum giganteum
(early blue cohosh)

Arisaema triphyllum
(Jack-in-the-pulpit)

Spring ephemerals & pollinators

Pieris virginiensis
(West Virginia White)
G3



Bombus ternarius
(Tricolored bumble bee)
LC

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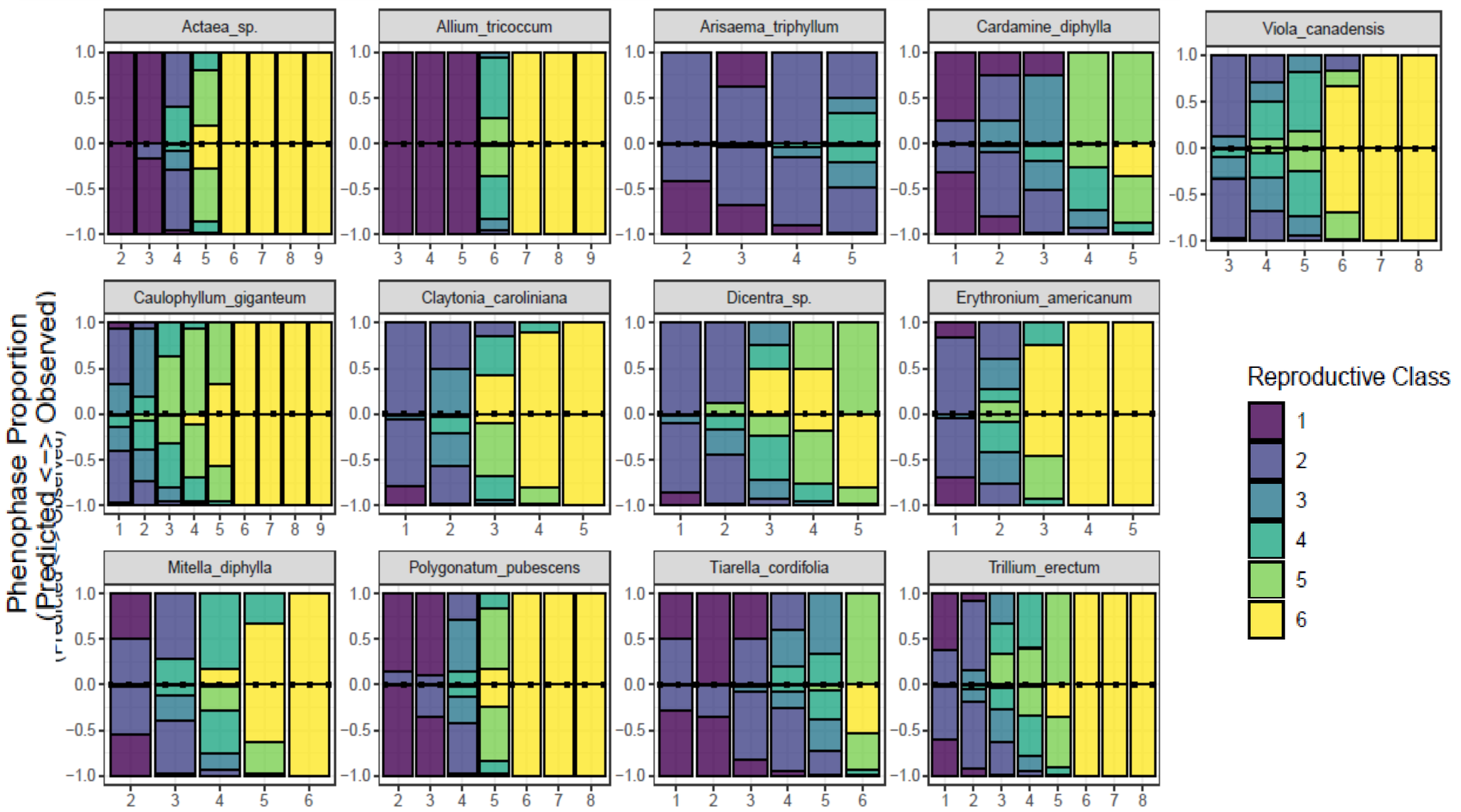
Cumulative ordinal regression model of reproductive phenology

Flowers or buds	Open flowers	Past flower	Fruits	Ripe fruits	Class	Ordinal
Y	N	N	N	N	1	Flower buds only
Y	Y	N	N	N	2	Flower buds & flowers
Y	Y	Y	N	N	3	All stages flower
N	Y	Y	N	N	3	Open & past flower
N	N	Y	N	N	4	Past flower only
Y	Y	Y	Y	N	4	All except ripe fruits
N	N	Y	Y	N	5	Past flower & fruits
N	N	N	Y	N	6	Unripe fruits
N	N	N	Y	Y	7	Ripe fruits

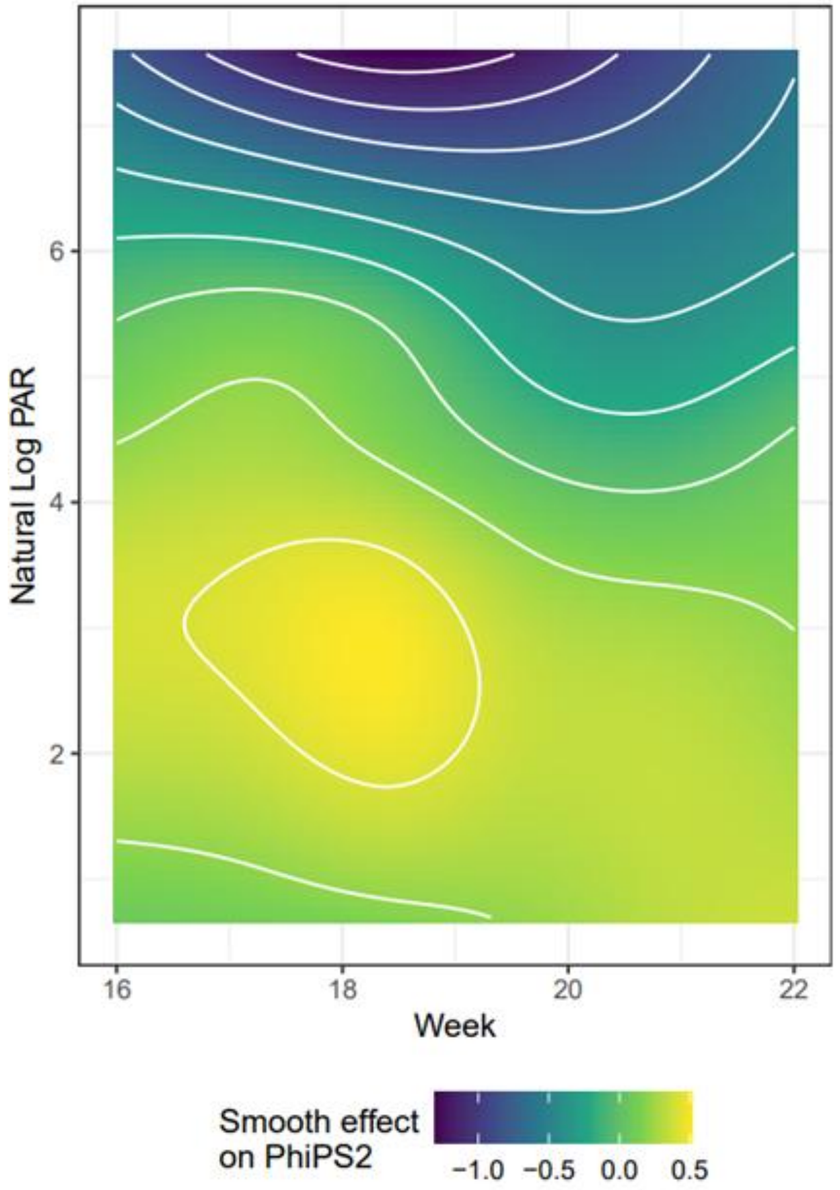
Species	Functional group
Actaea spp.	Summer-active
Allium tricoccum	Spring ephemeral
Arisaema triphyllum	Summer-active
Cardamine diphylla	Spring ephemeral
Caulophyllum giganteum	Summer-active
Claytonia caroliniana	Spring ephemeral
Dicentra spp.	Spring ephemeral
Erythronium americanum	Spring ephemeral
Mitella diphylla	Summer-active
Polygonatum pubescens	Summer-active
Tiarella cordifolia	Summer-active
Trillium erectum	Summer-active
Viola canadensis	Summer-active

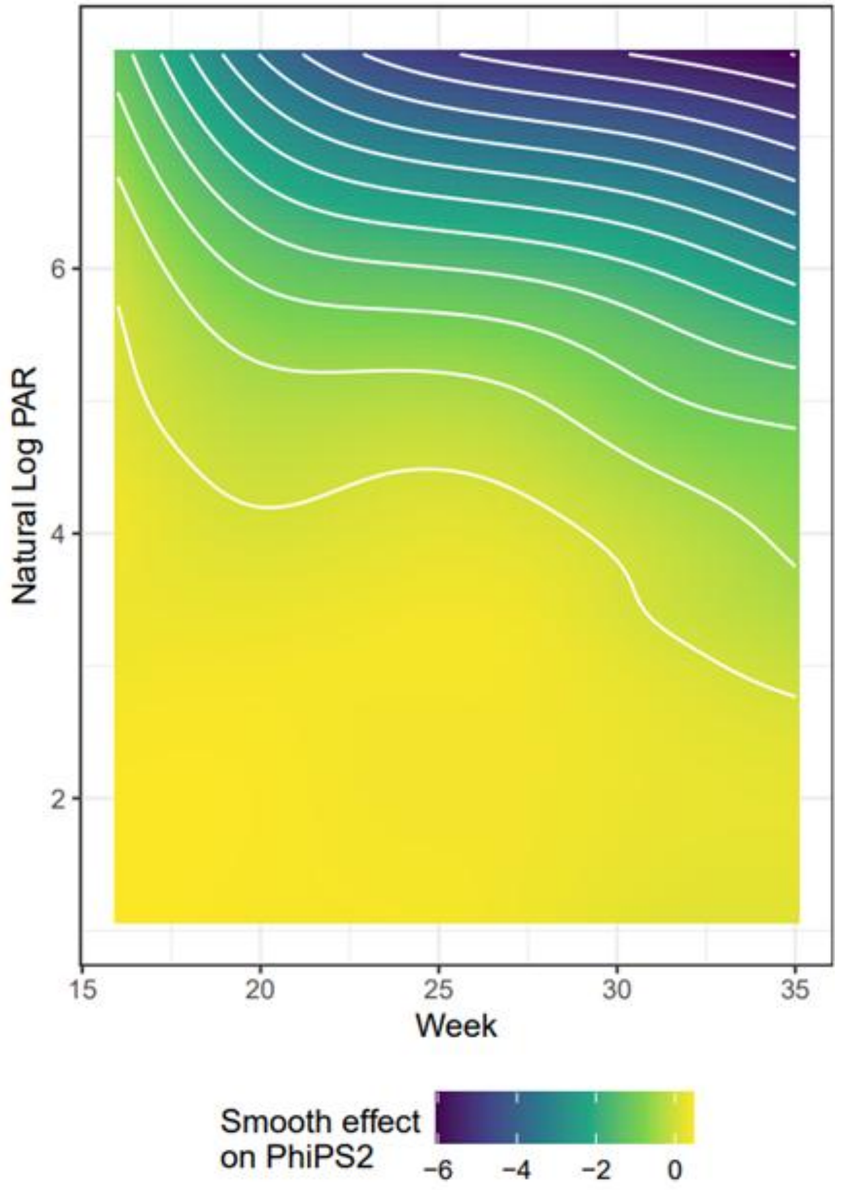
Species-level phenology results



Physiology ~ functional group

Spring ephemerals





Summer-actives