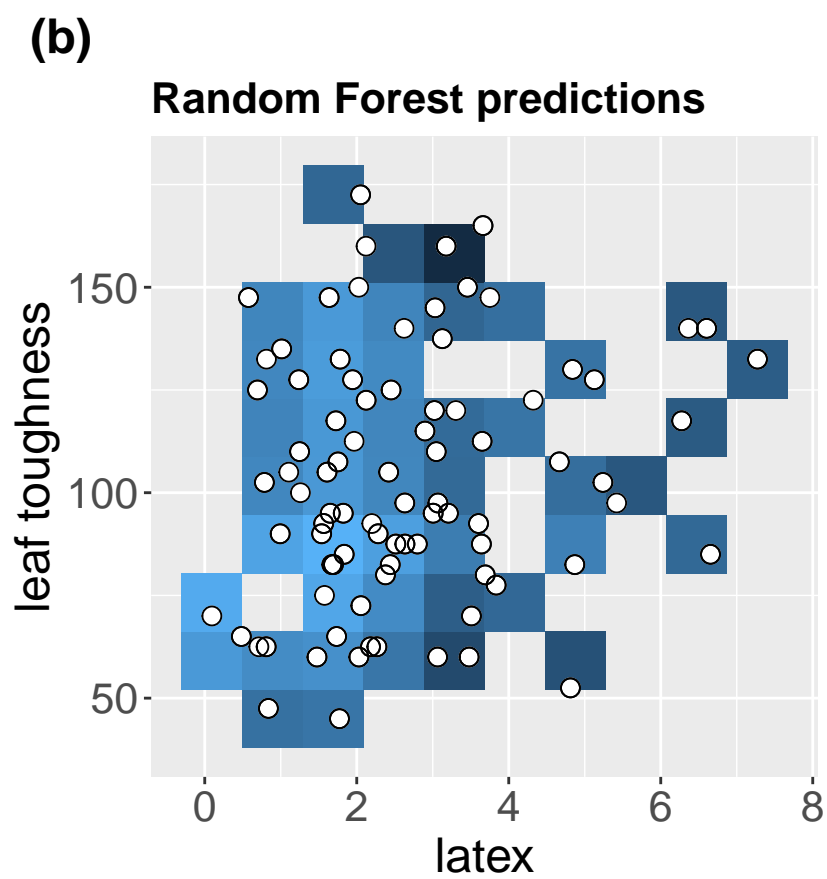
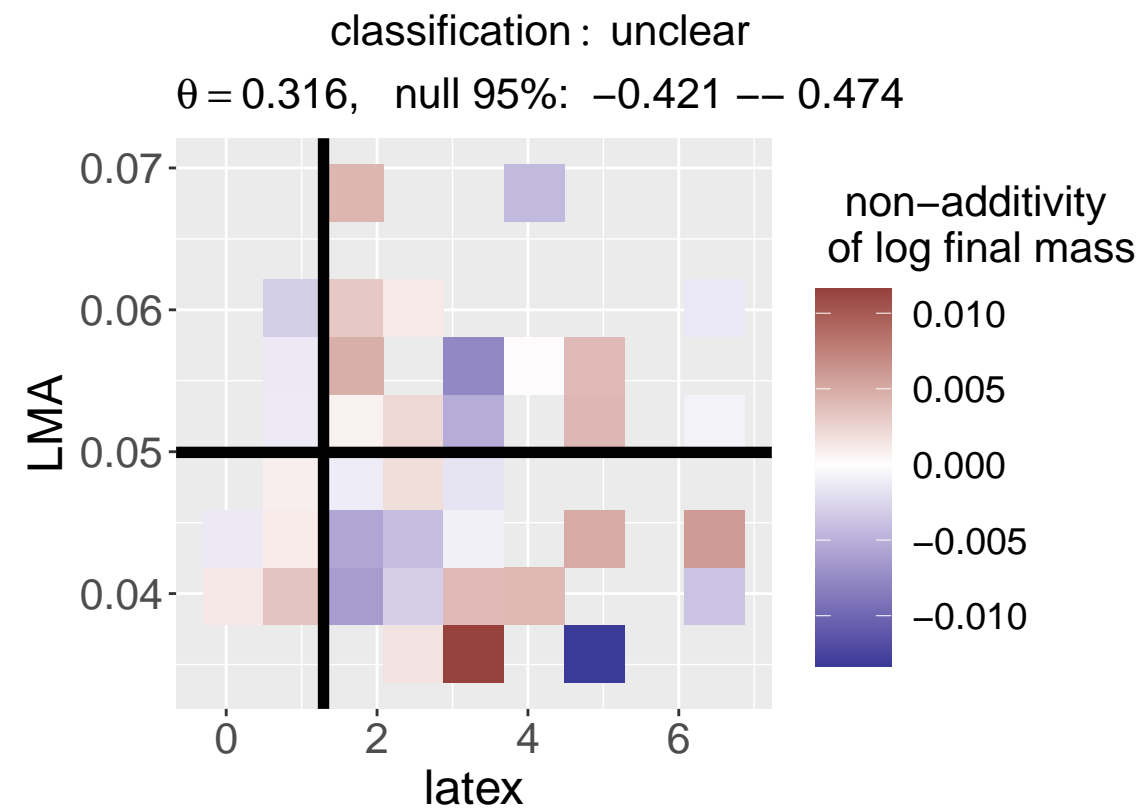
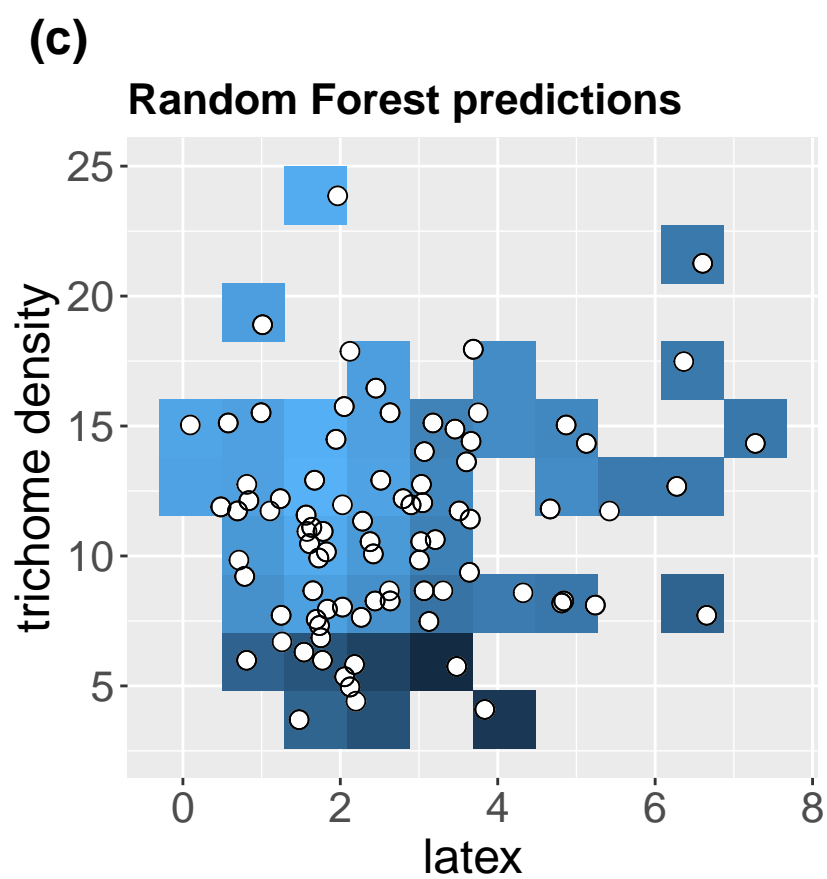
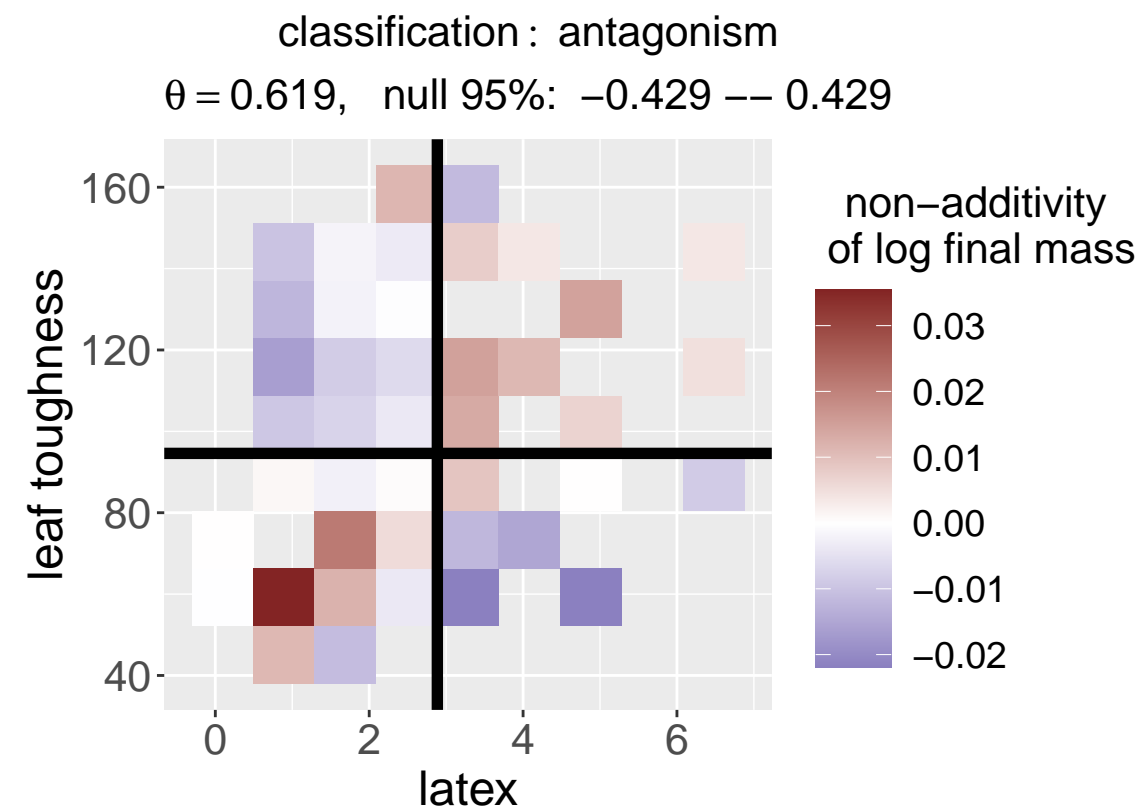


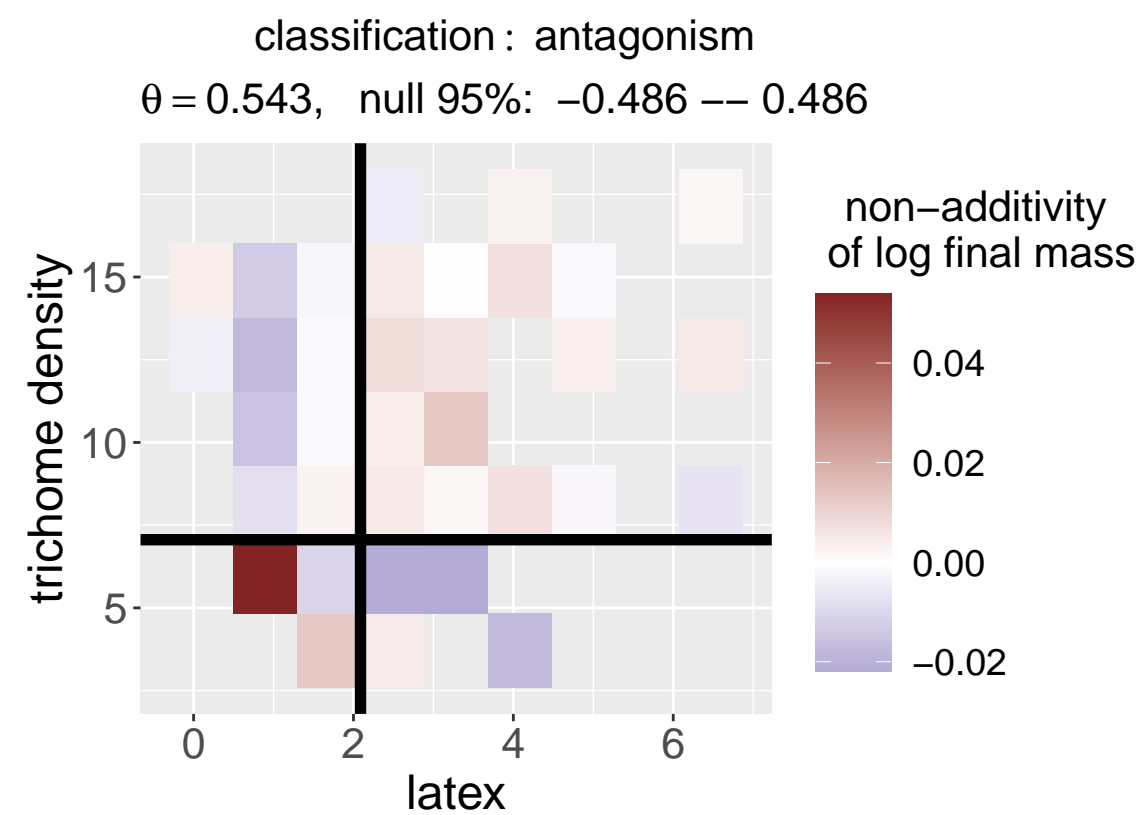
Monarch Growth

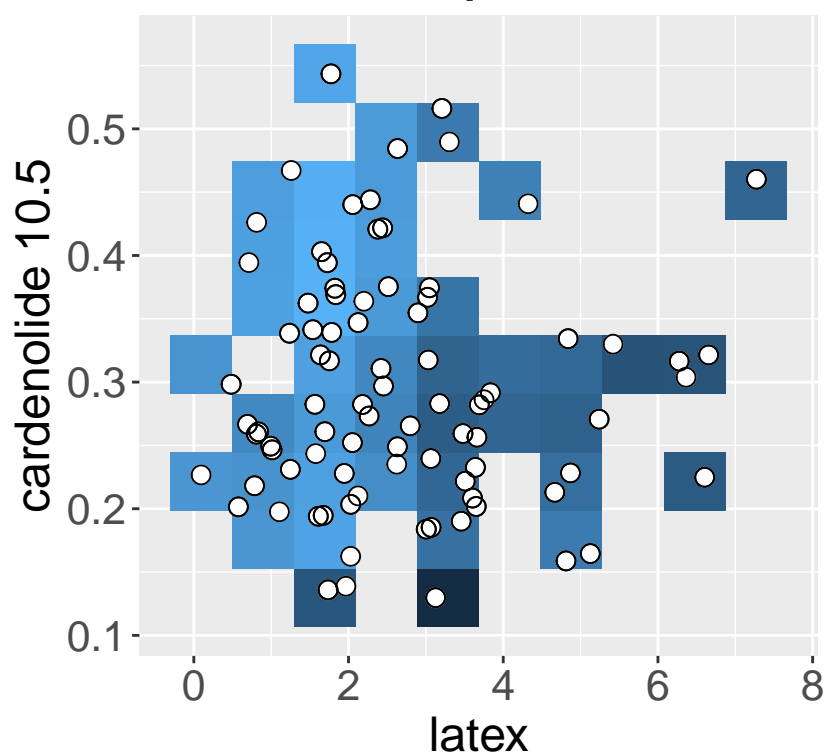


Monarch Growth

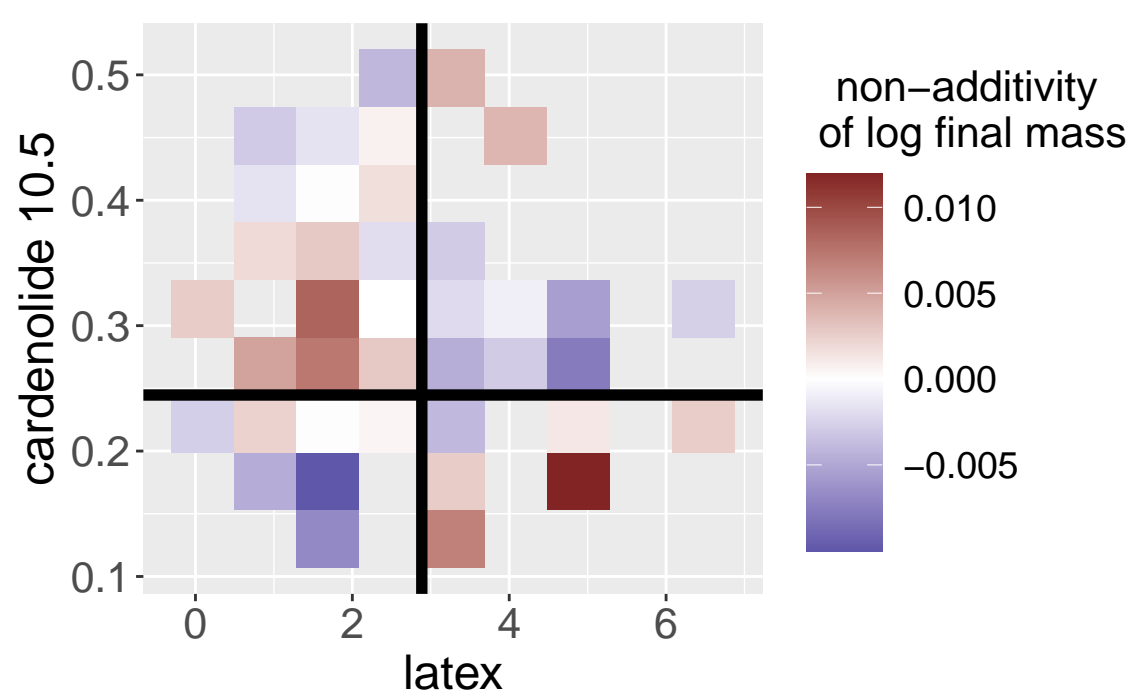
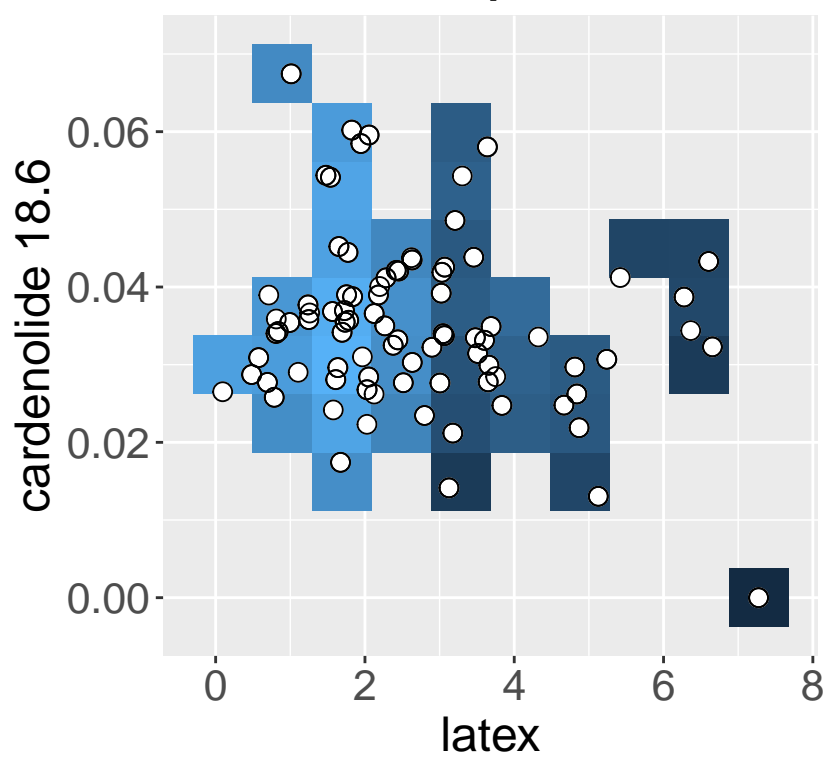


Monarch Growth

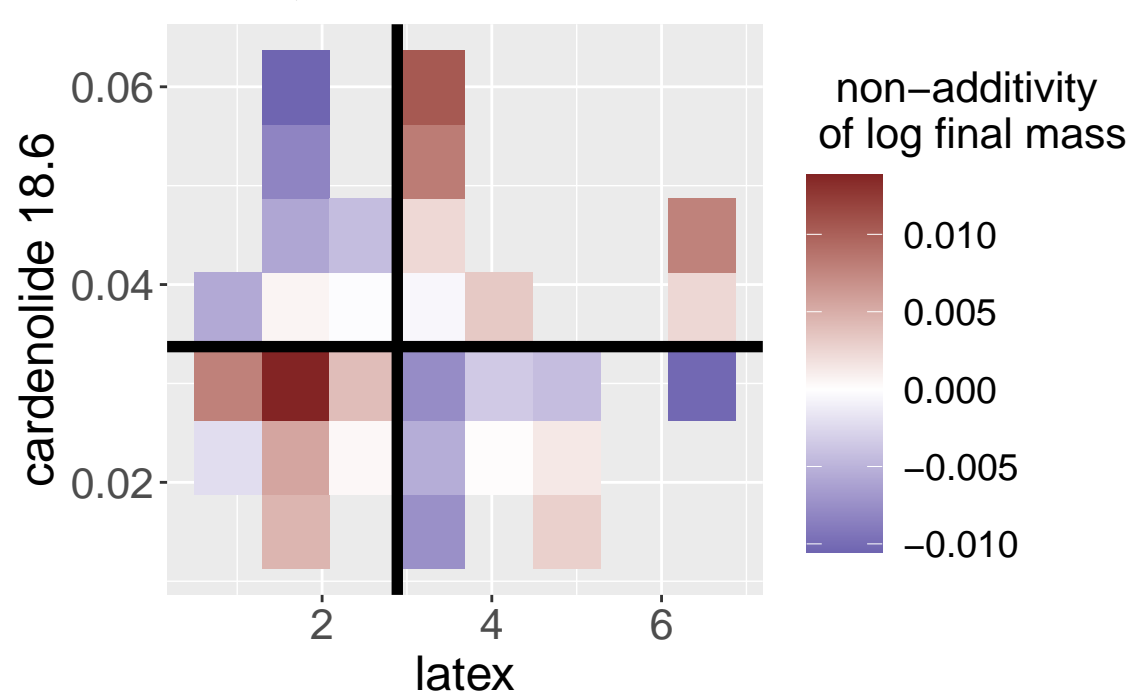
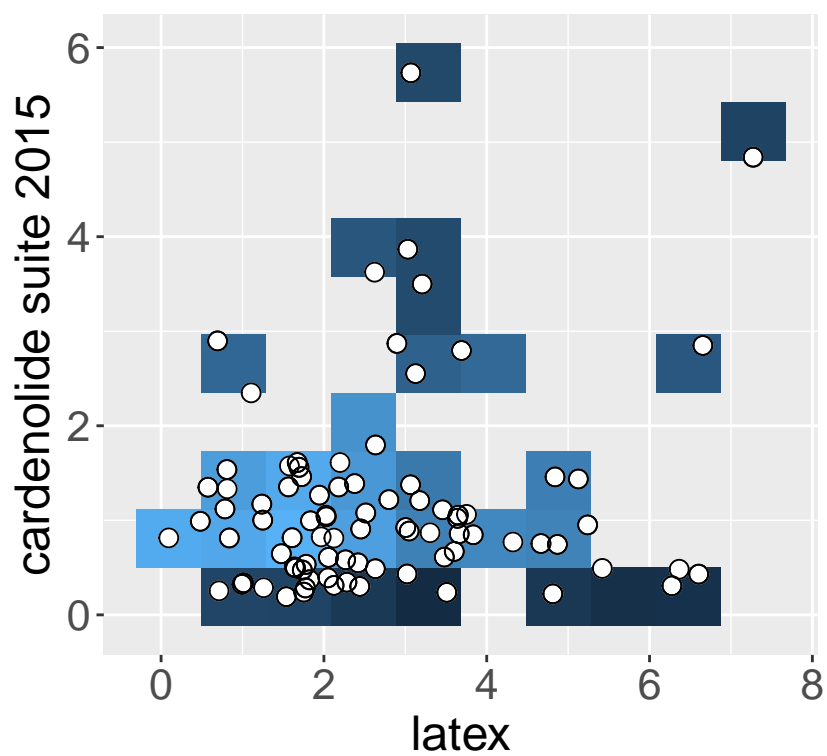


(d)**Random Forest predictions****Monarch Growth**

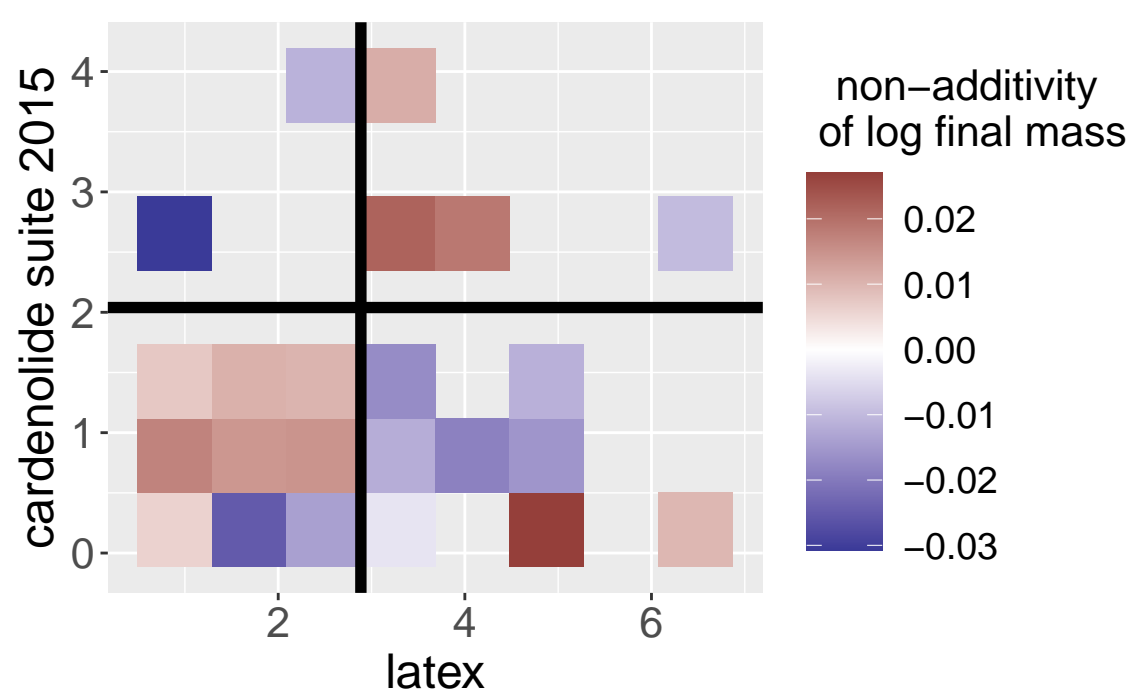
classification : unclear

 $\theta = -0.436$, null 95%: -0.436 -- 0.436 **(e)****Random Forest predictions****Monarch Growth**

classification : antagonism

 $\theta = 0.6$, null 95%: -0.533 -- 0.533 **(f)****Random Forest predictions****Monarch Growth**

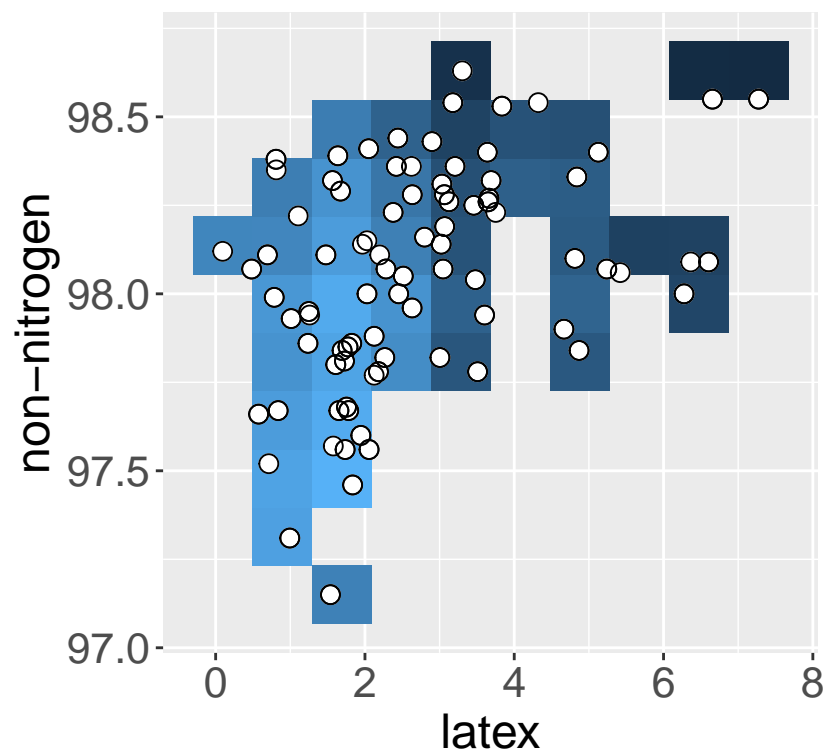
classification : unclear

 $\theta = 0.565$, null 95%: -0.565 -- 0.565 

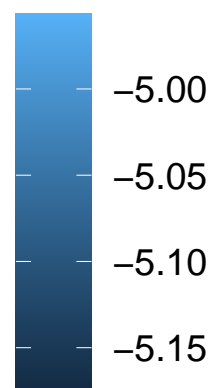
(g)

Monarch Growth

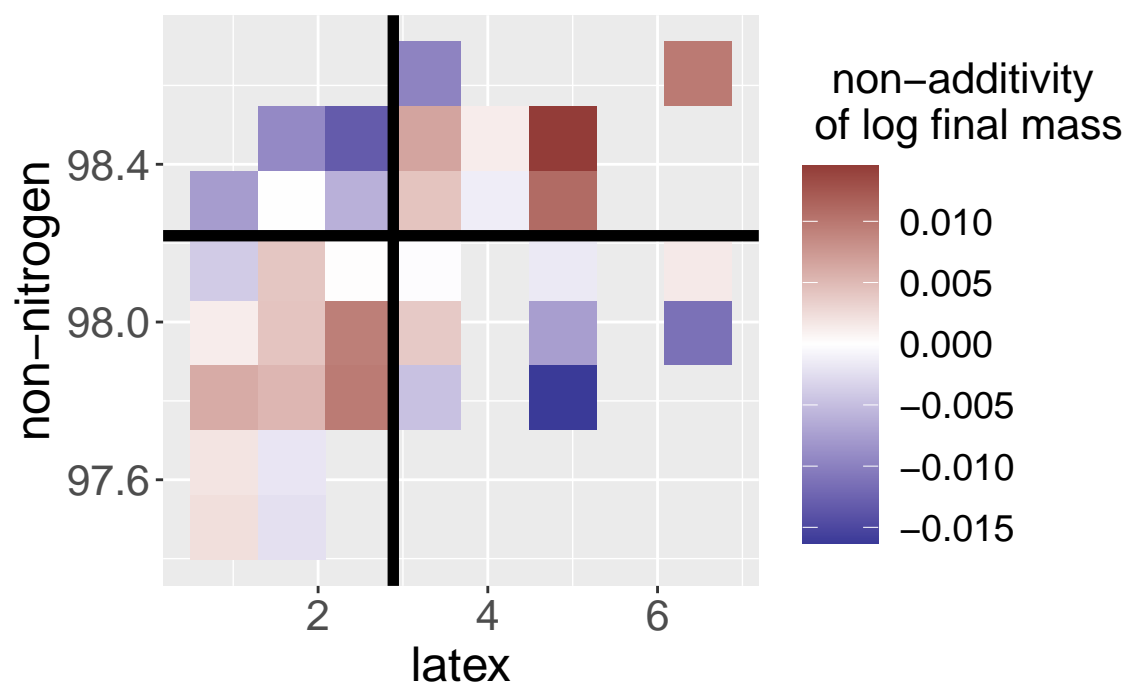
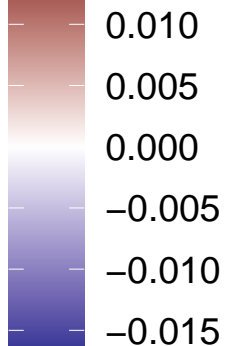
Random Forest predictions



log final mass

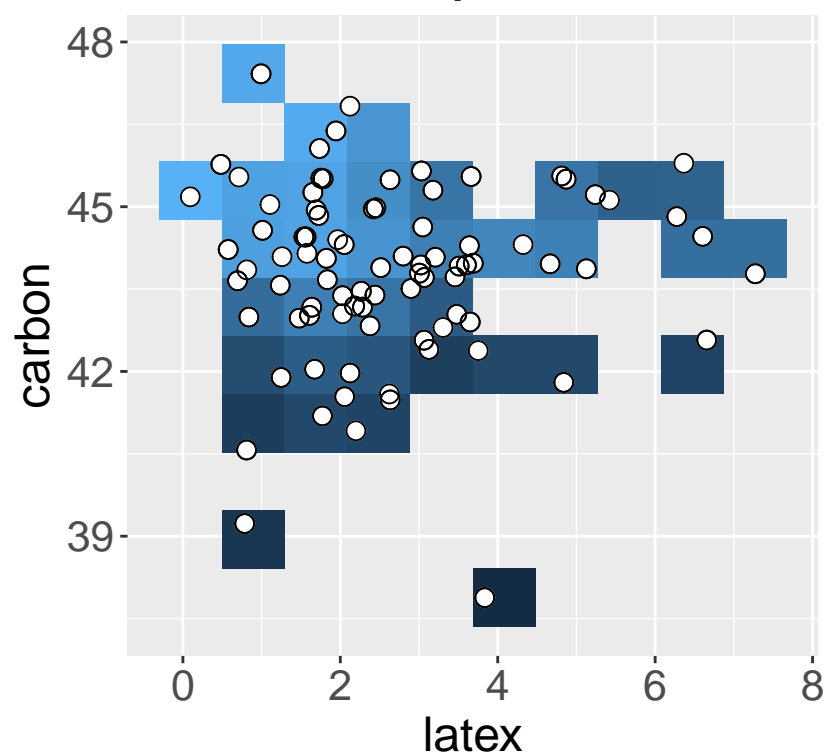


classification : antagonism

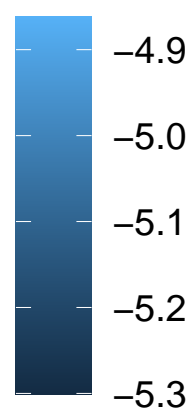
 $\theta = 0.588$, null 95%: -0.412 -- 0.471non-additivity
of log final mass**(h)**

Monarch Growth

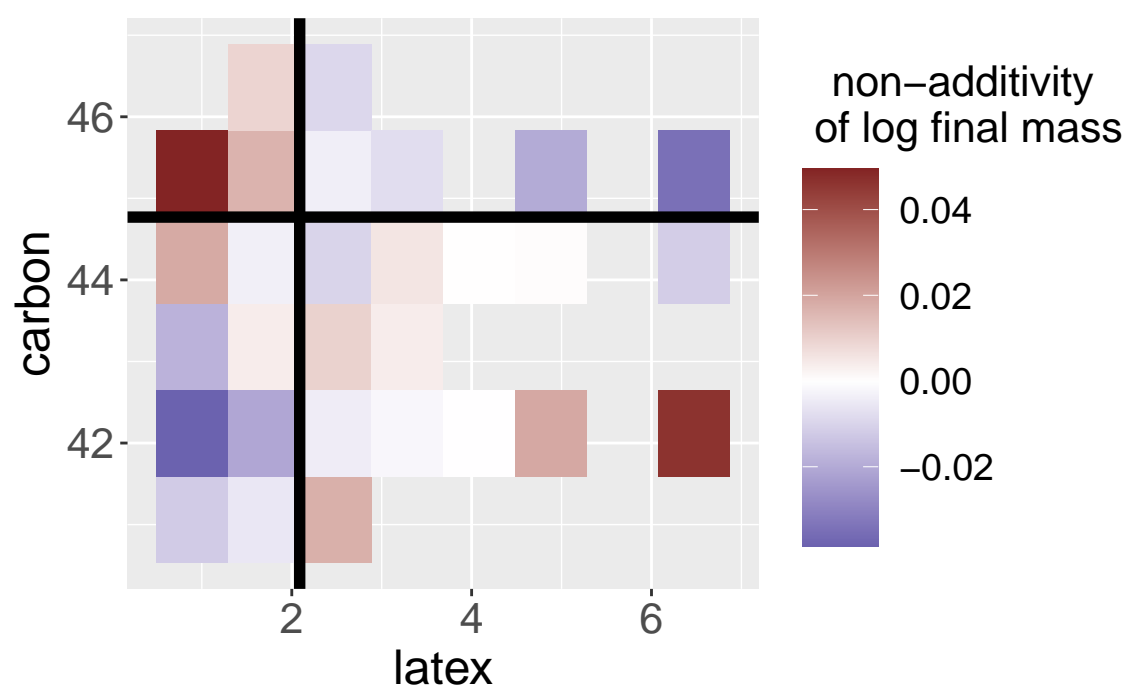
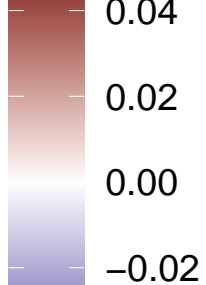
Random Forest predictions



log final mass

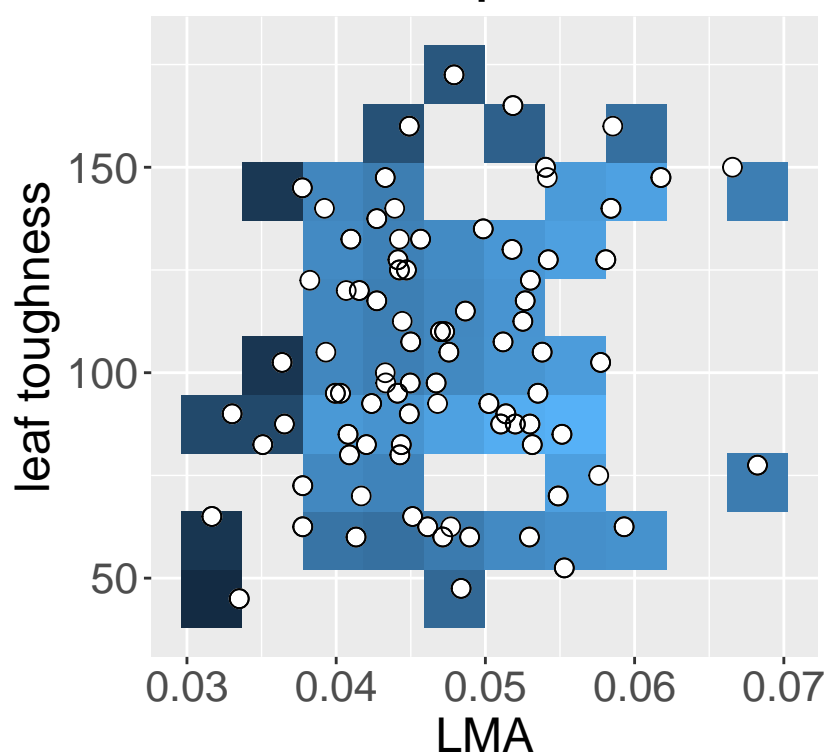


classification : unclear

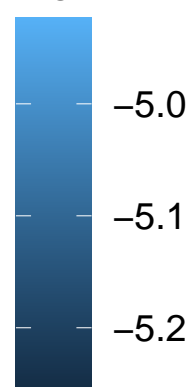
 $\theta = -0.517$, null 95%: -0.517 -- 0.517non-additivity
of log final mass**(i)**

Monarch Growth

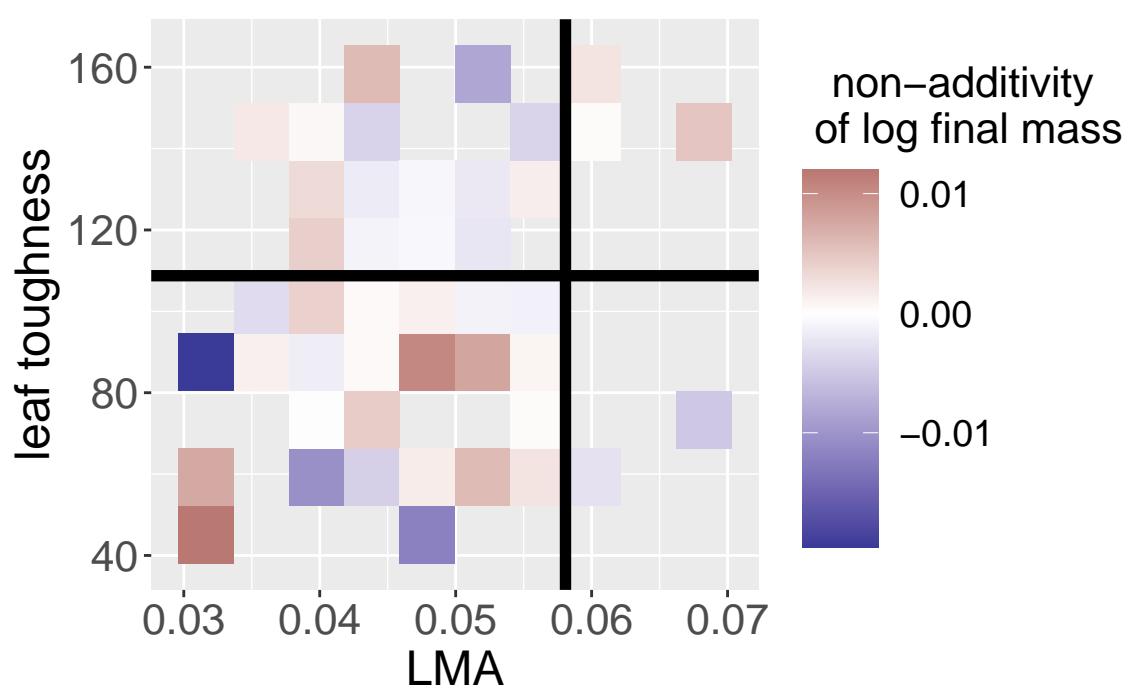
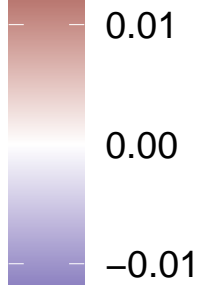
Random Forest predictions

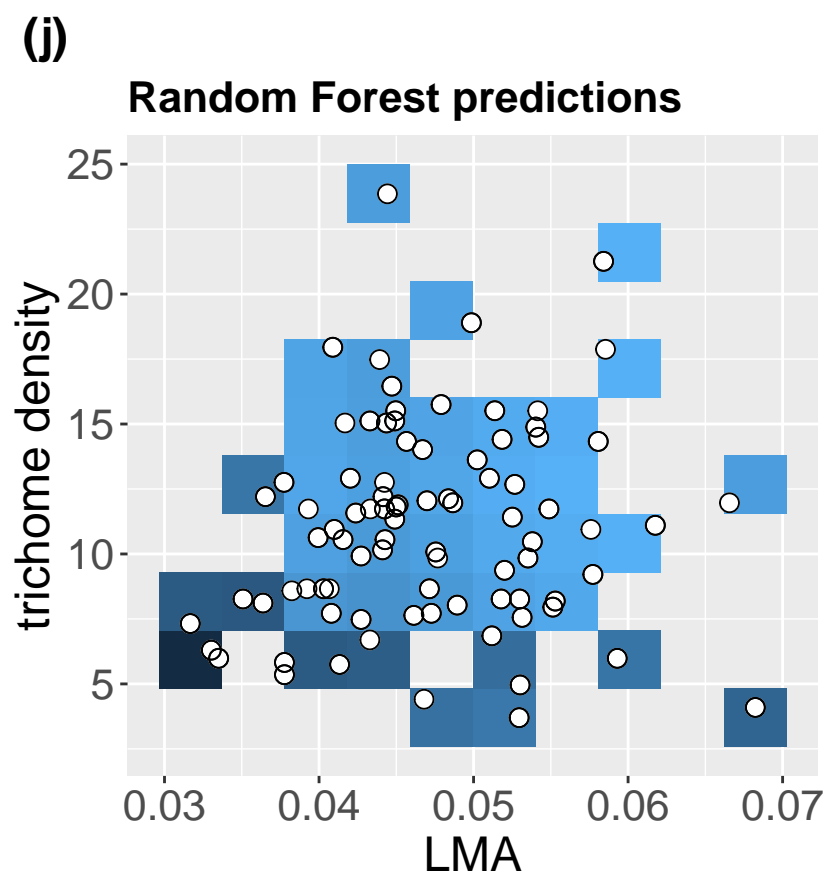


log final mass

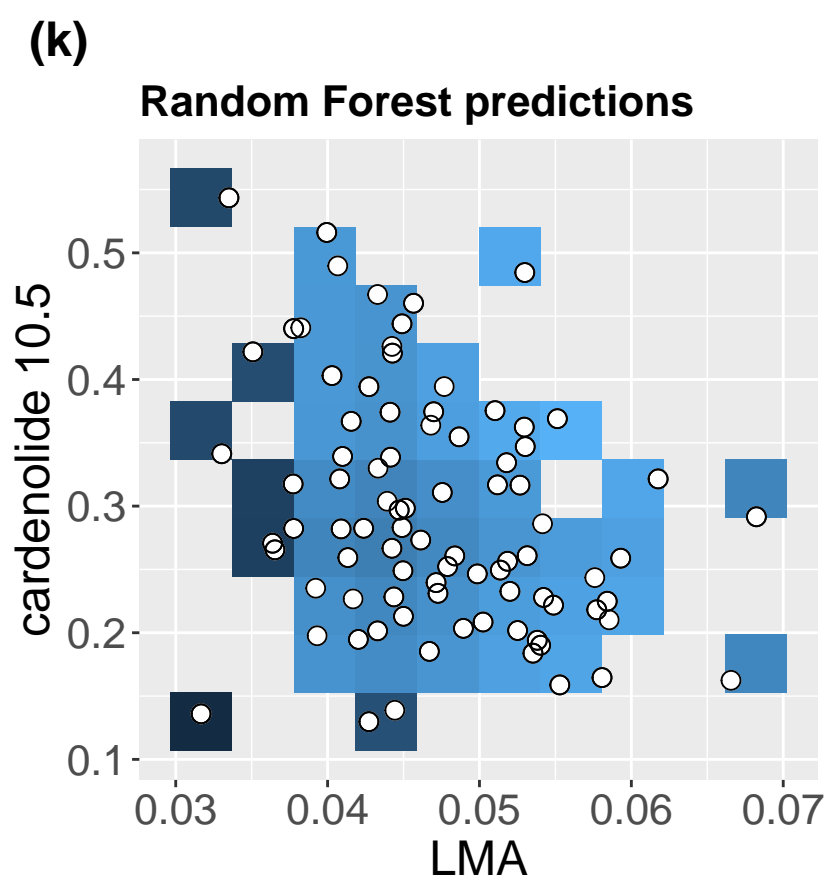
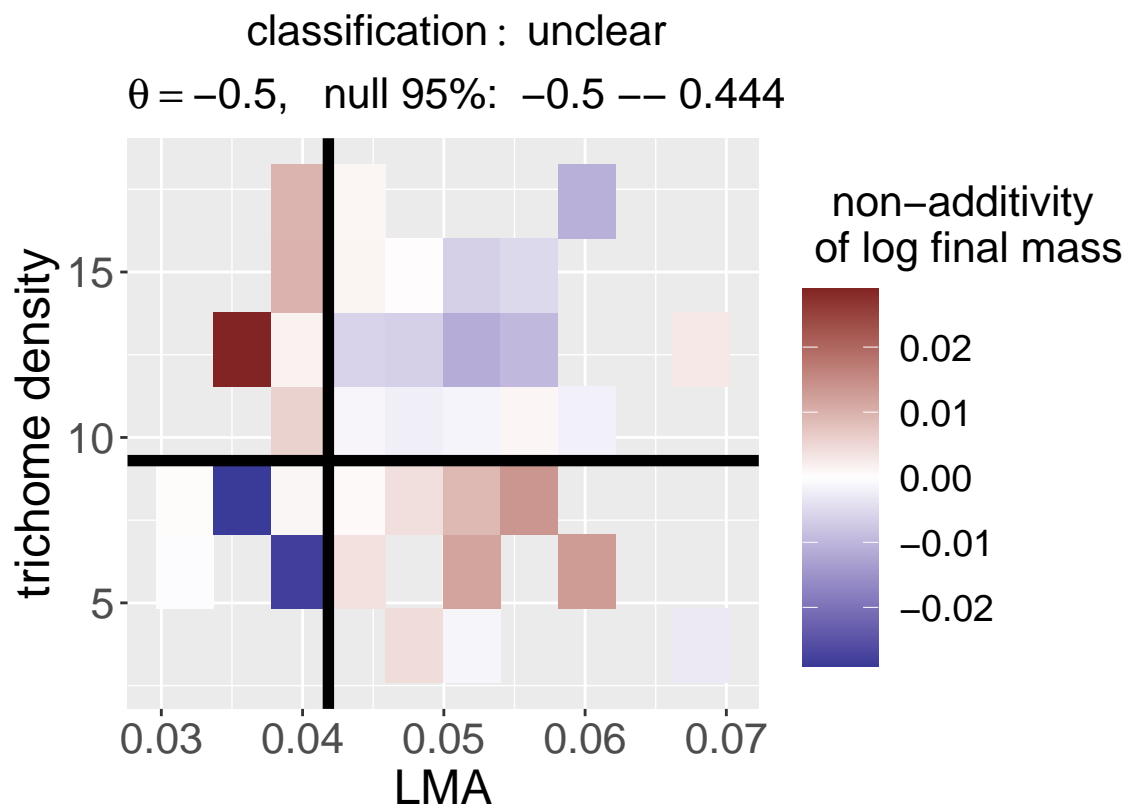


classification : unclear

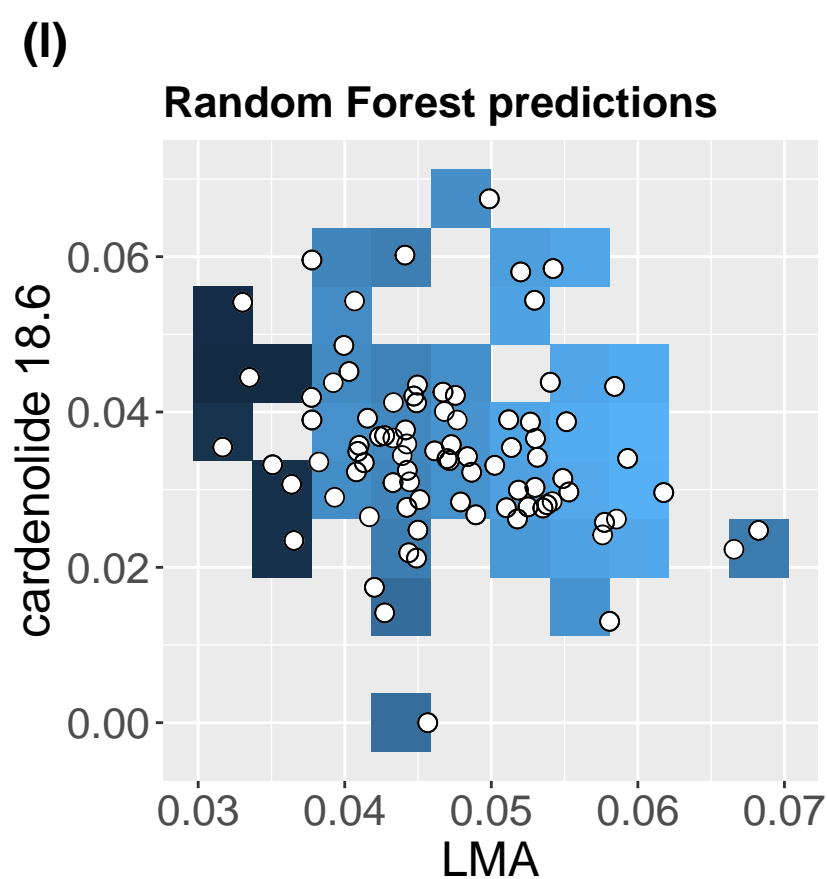
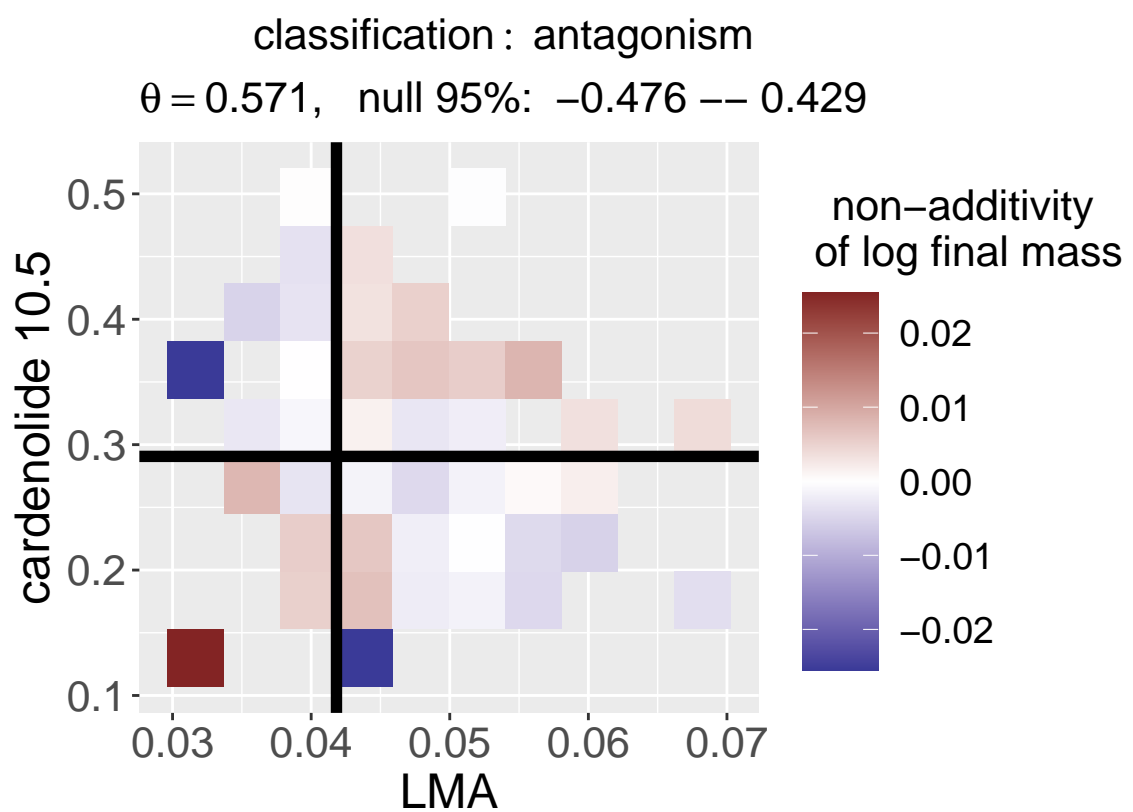
 $\theta = 0.364$, null 95%: -0.409 -- 0.455non-additivity
of log final mass



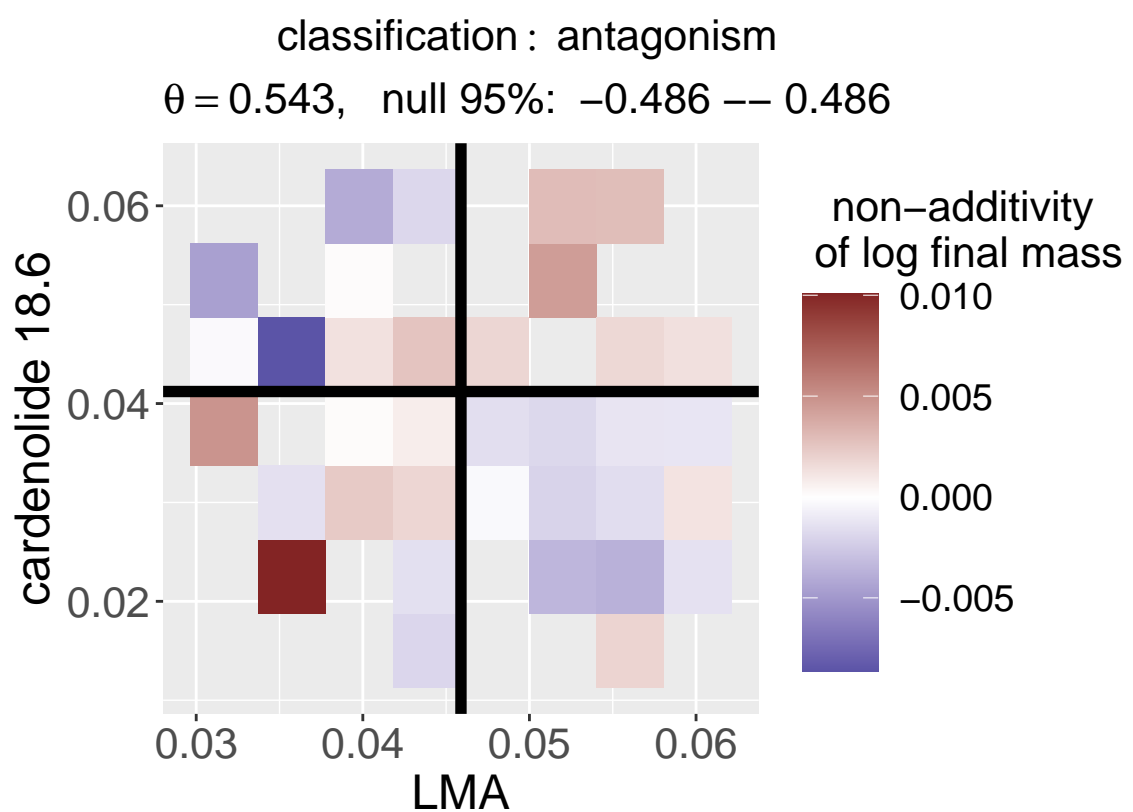
Monarch Growth

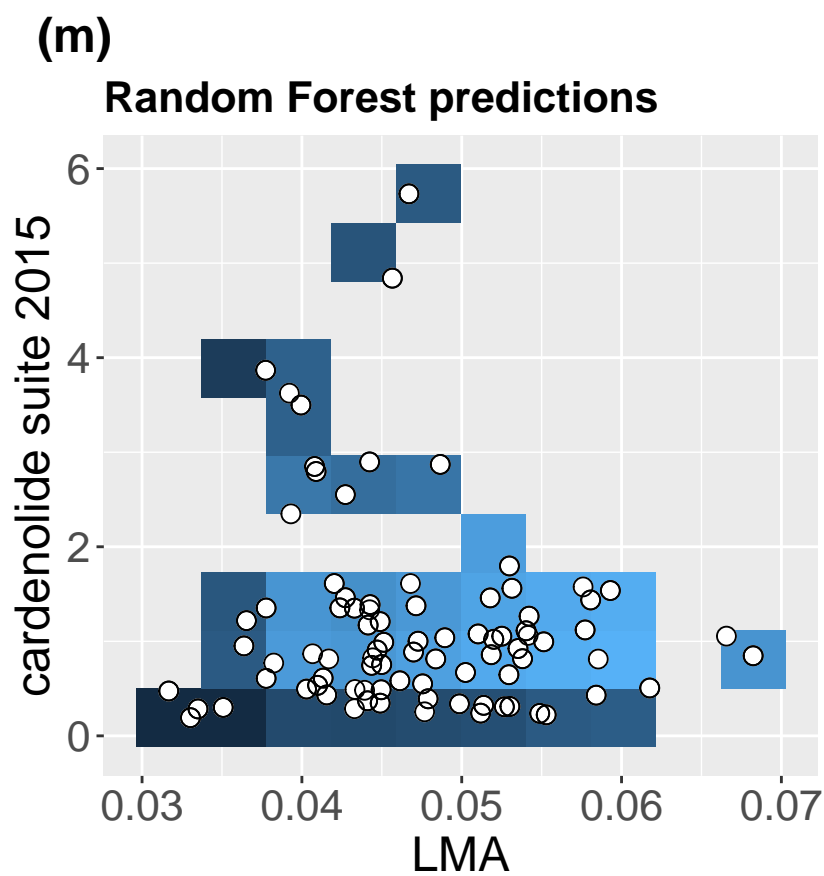


Monarch Growth

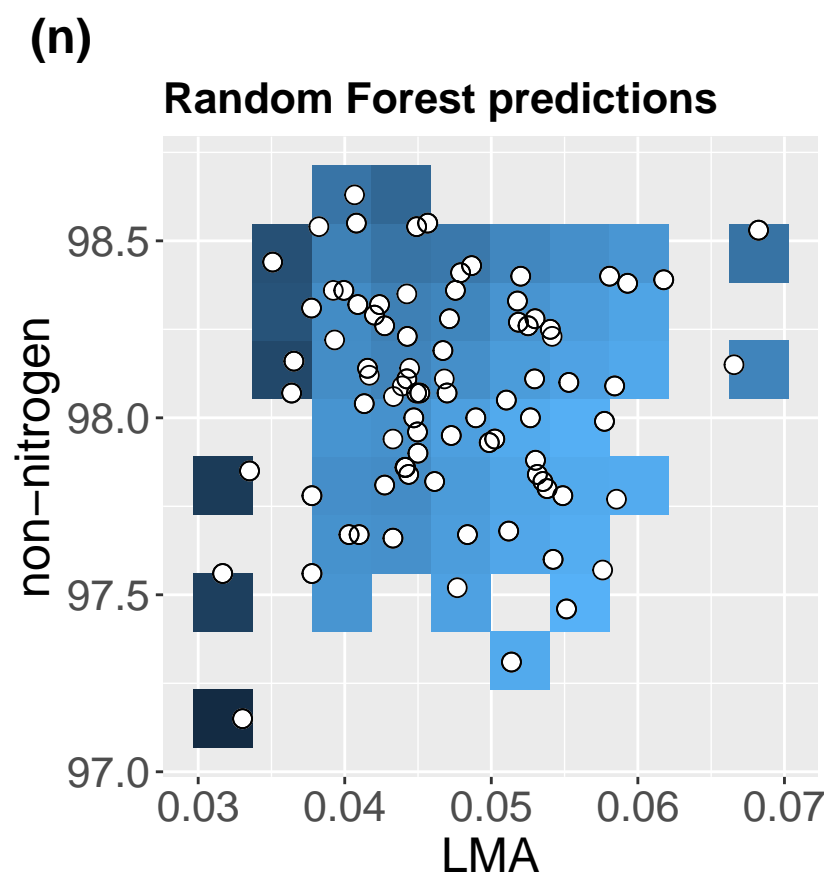
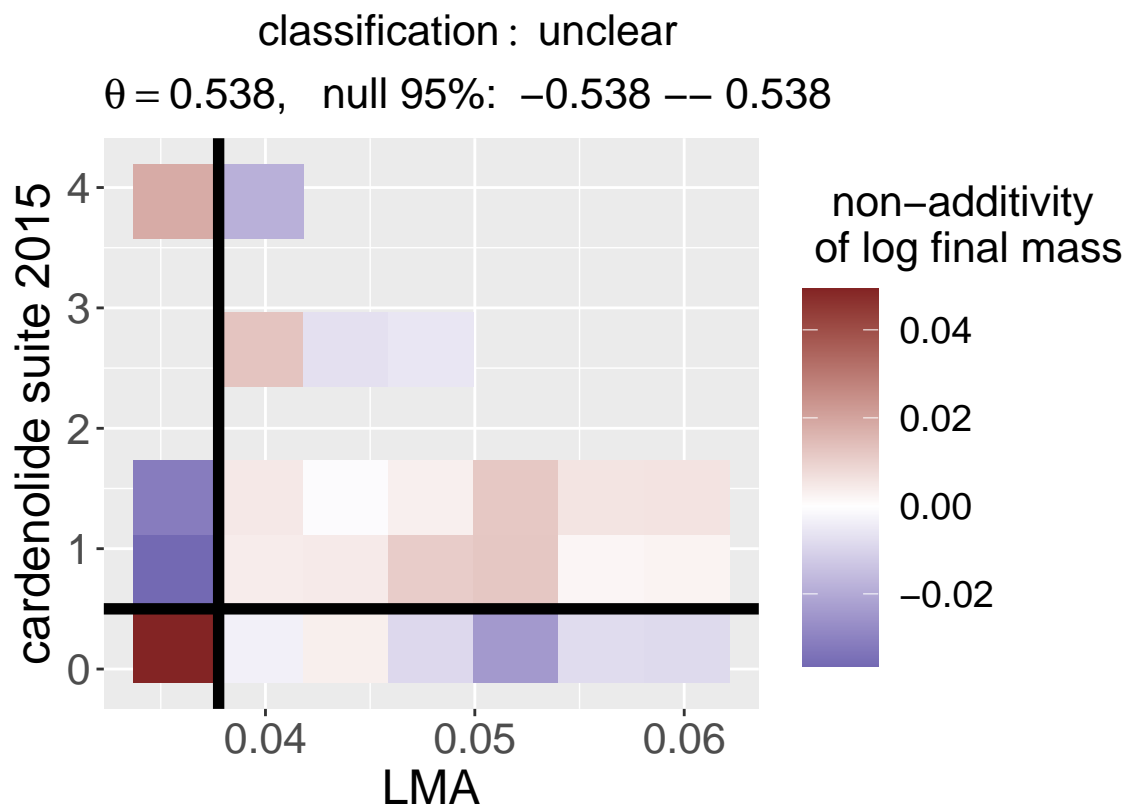


Monarch Growth

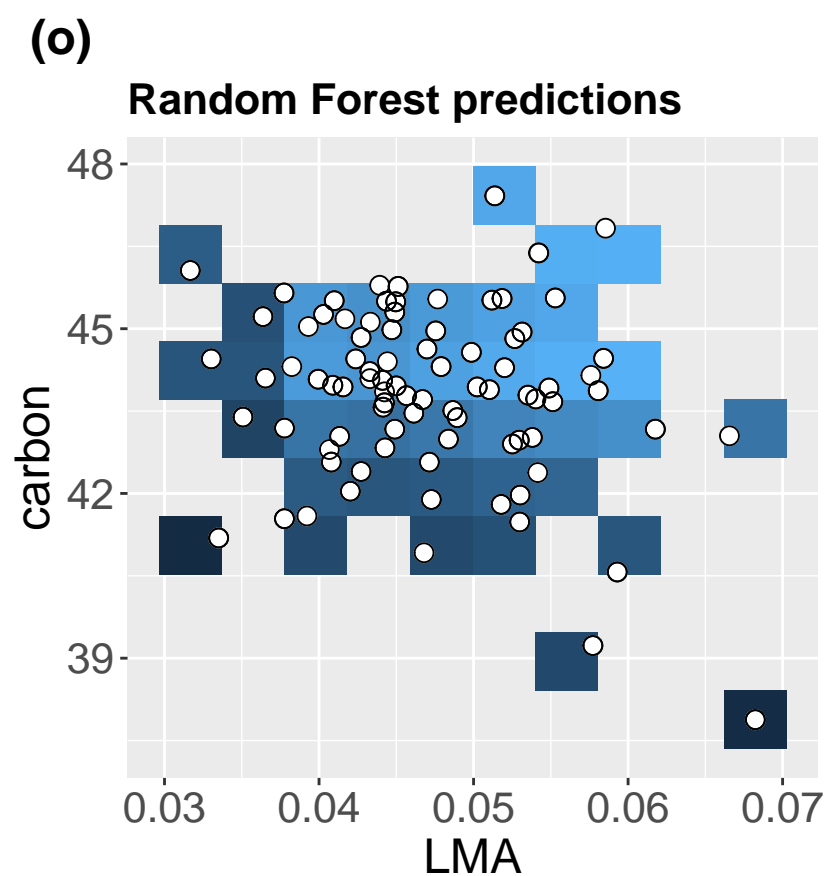
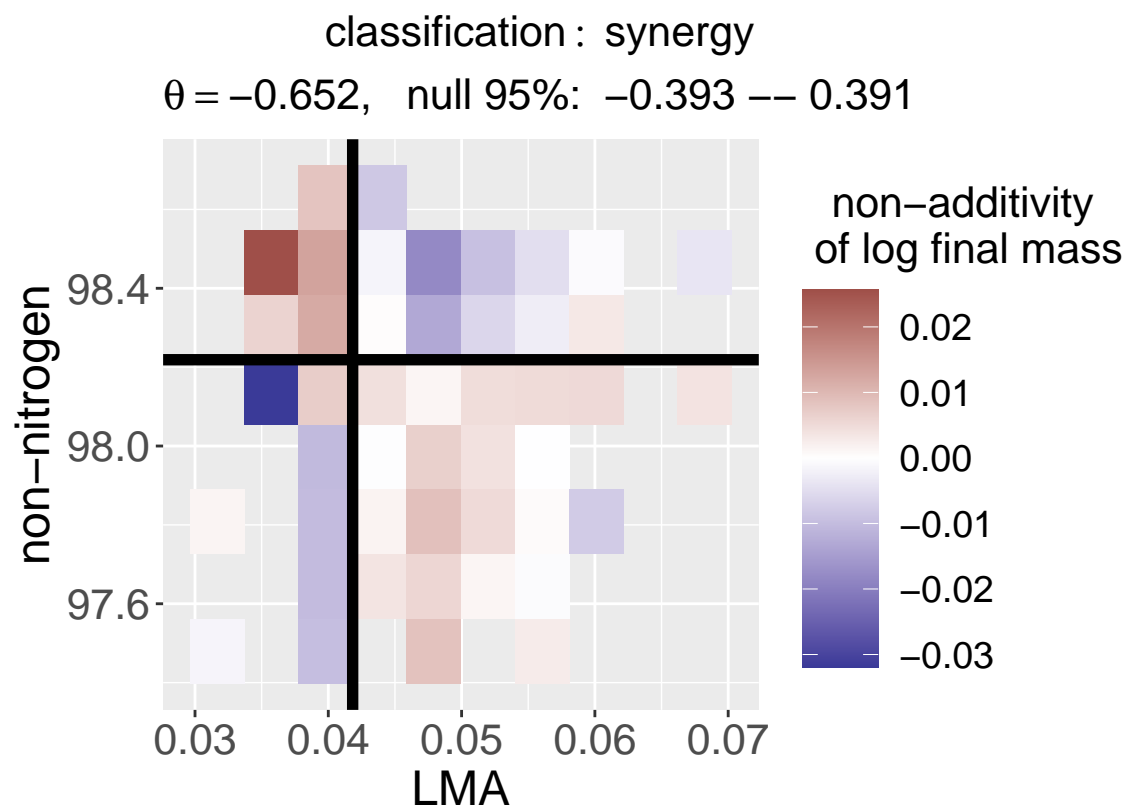




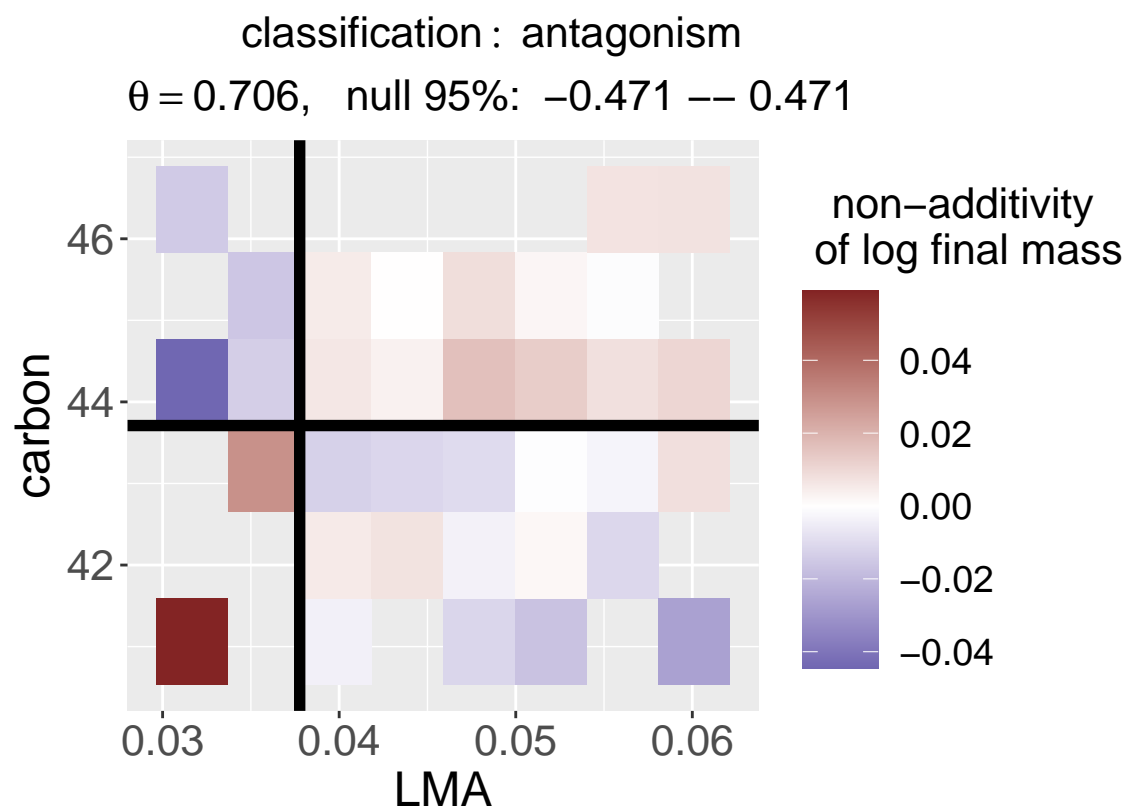
Monarch Growth



Monarch Growth

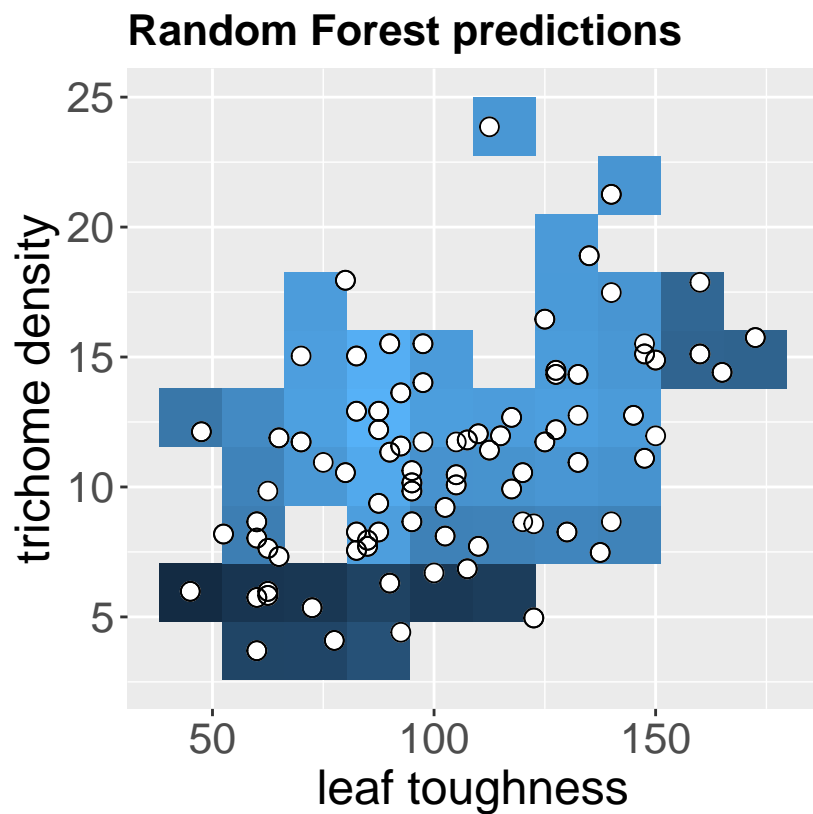


Monarch Growth

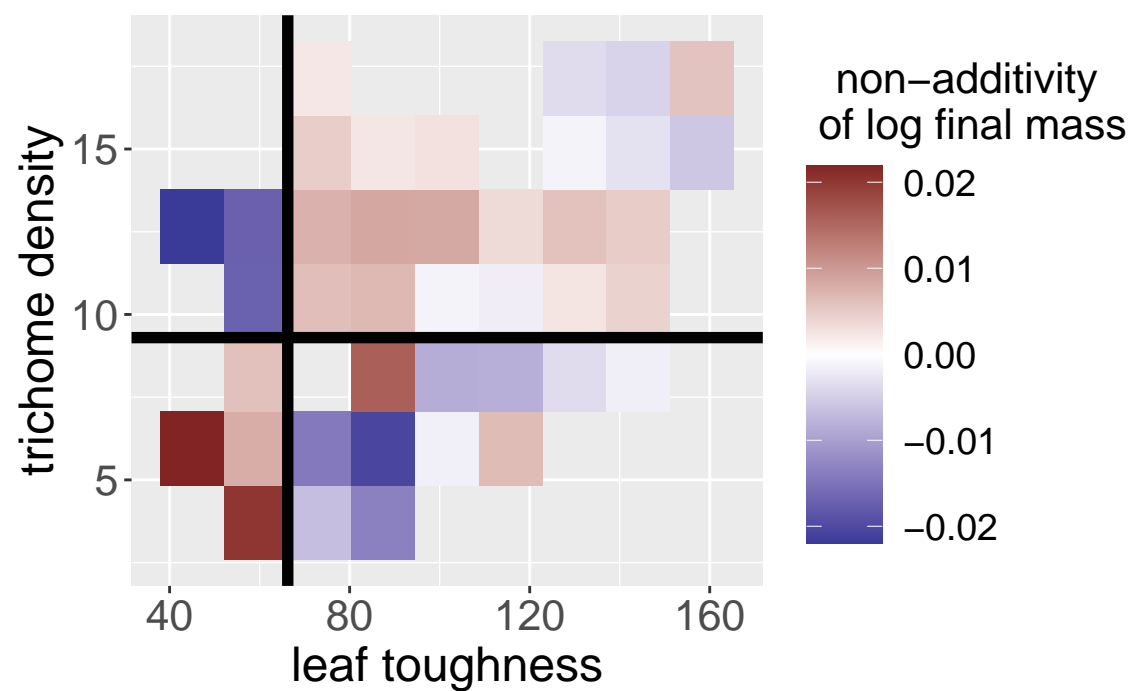


(p)

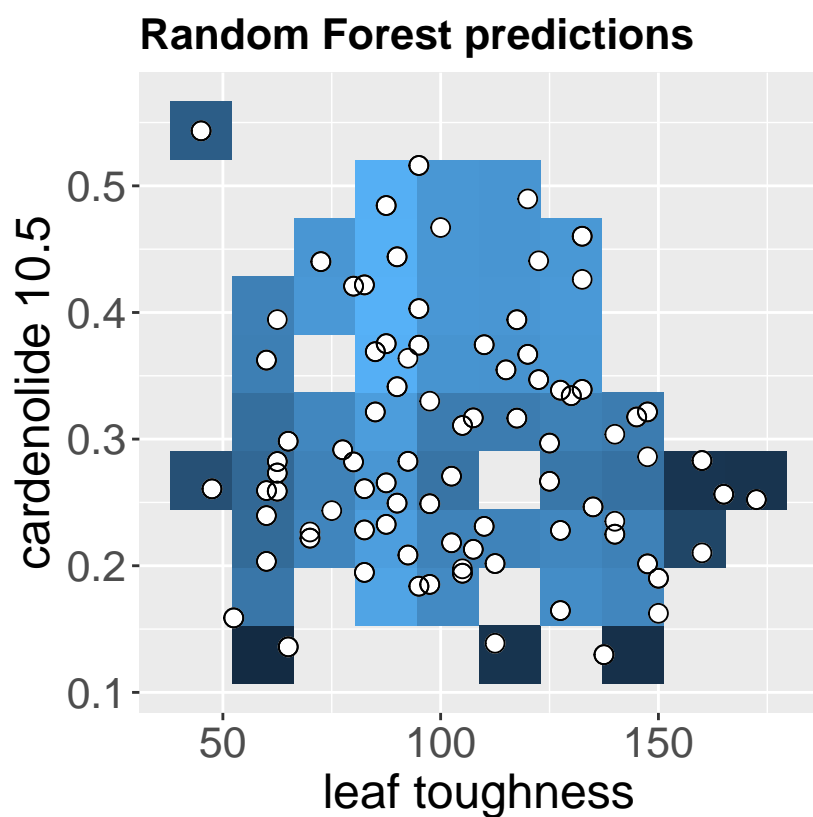
Monarch Growth



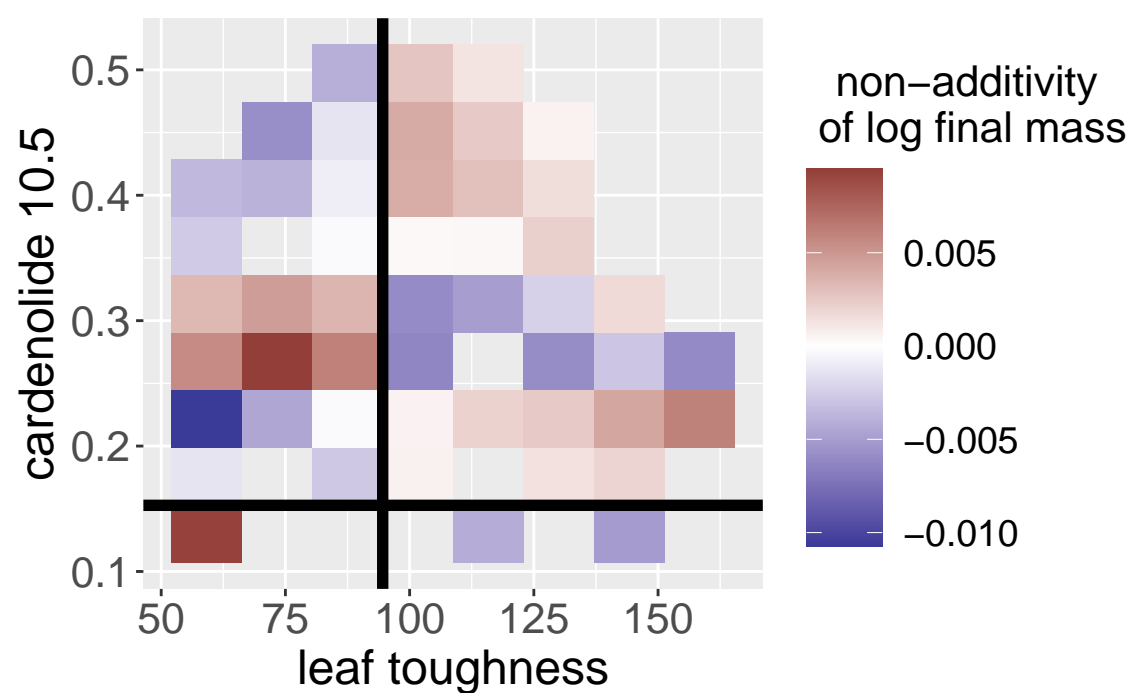
classification : antagonism

 $\theta = 0.55$, null 95%: -0.4 -- 0.45**(q)**

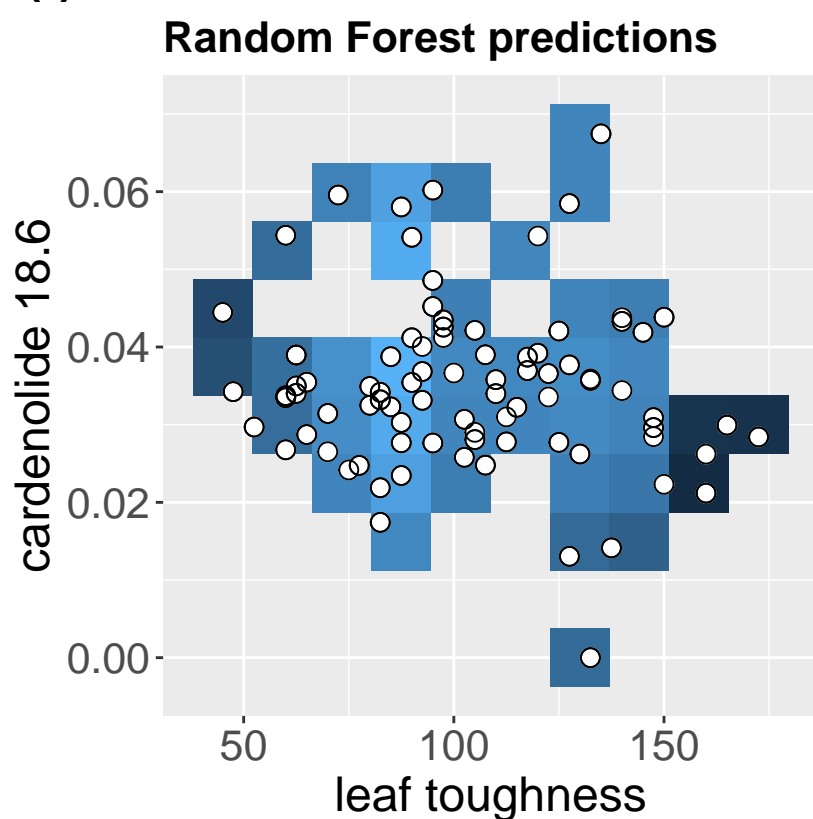
Monarch Growth



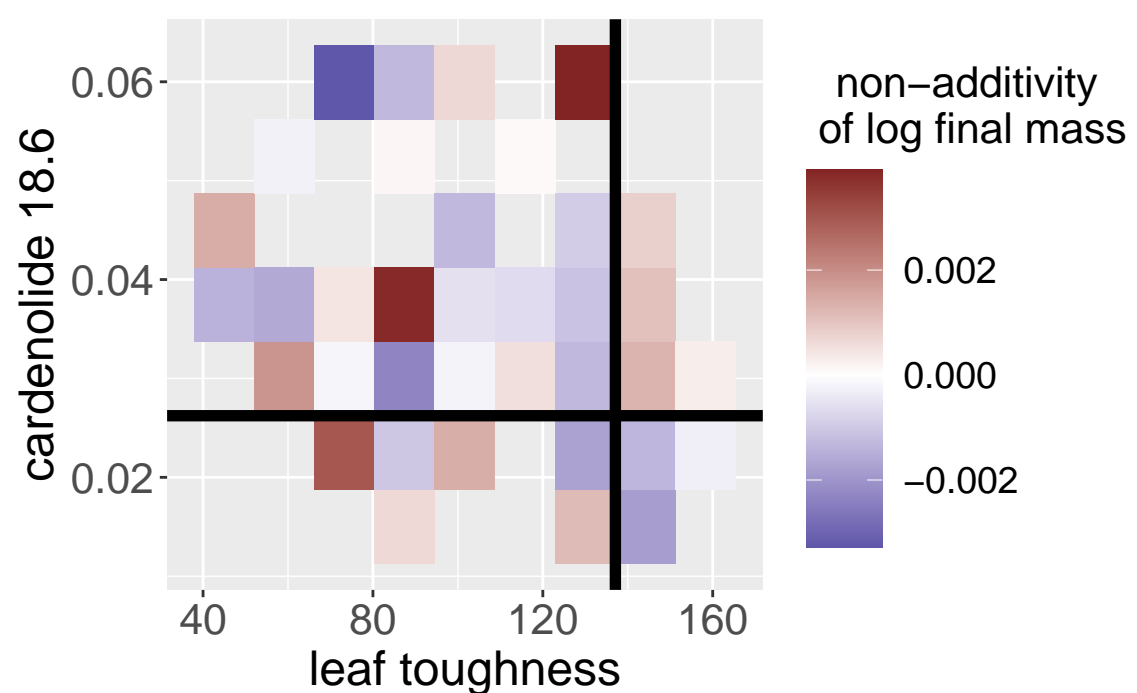
classification : antagonism

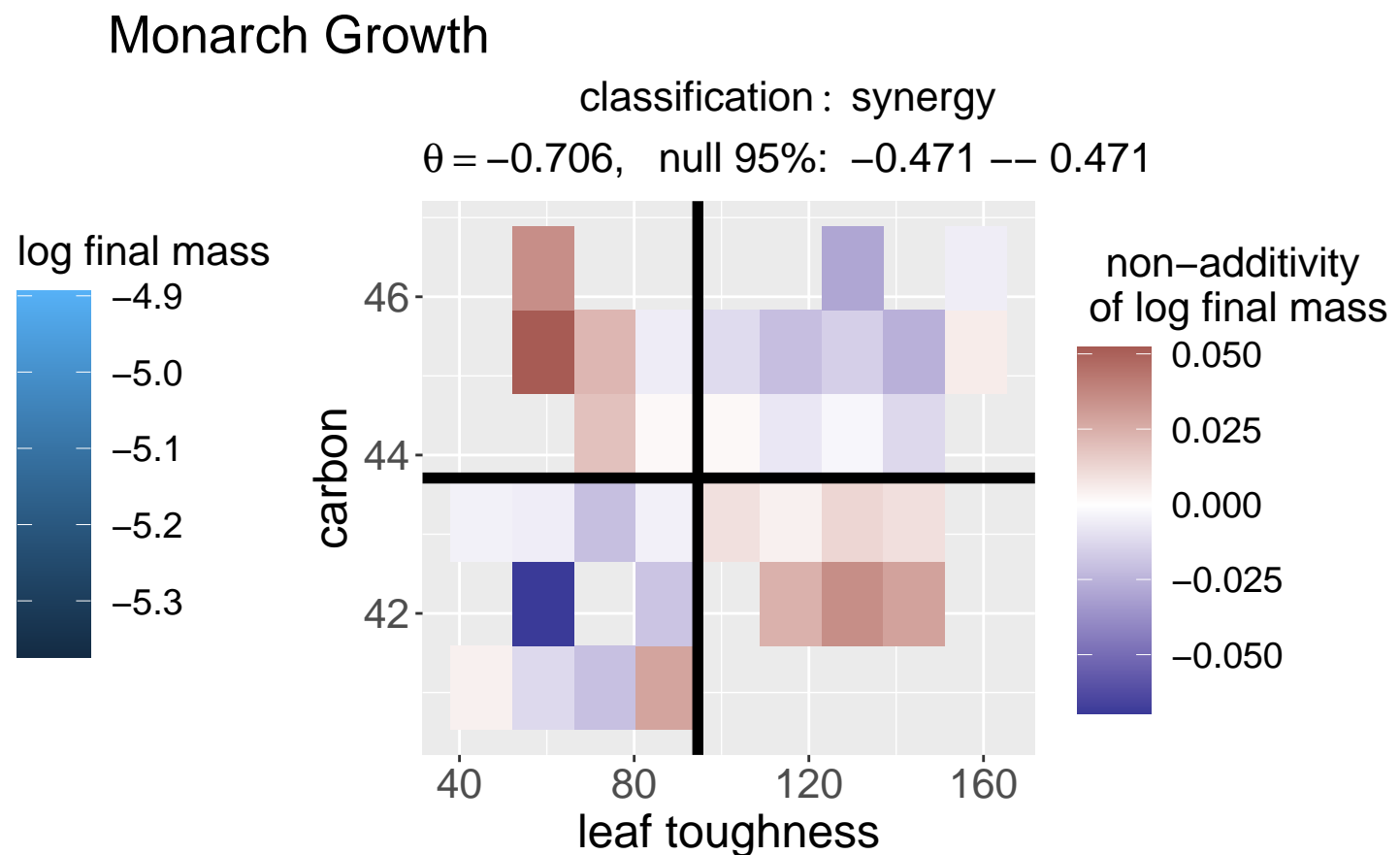
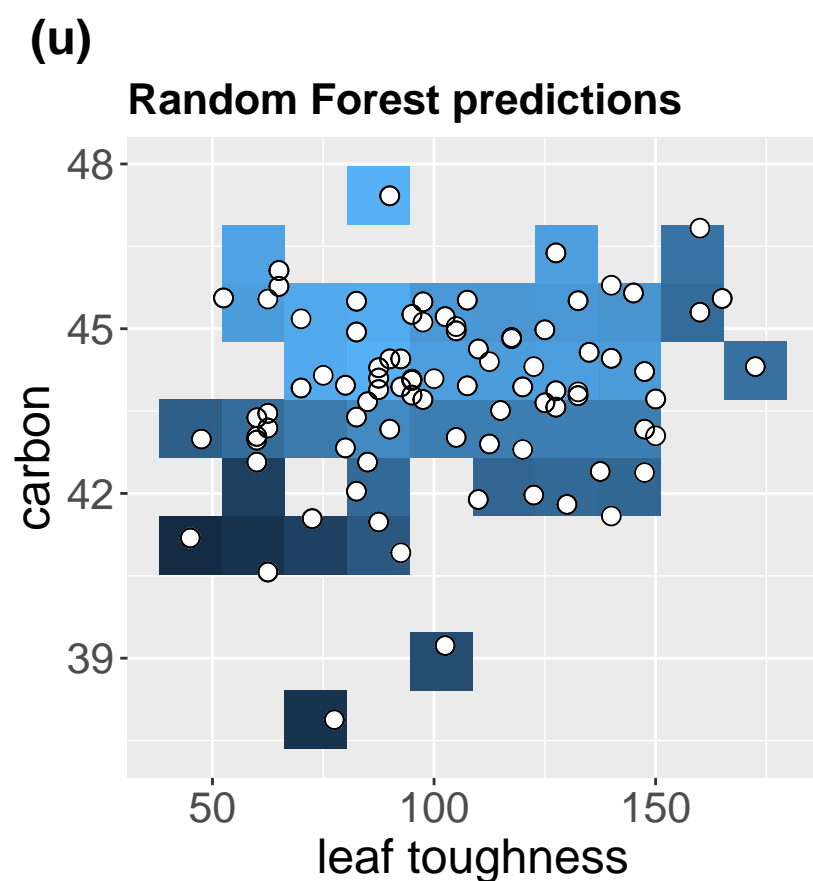
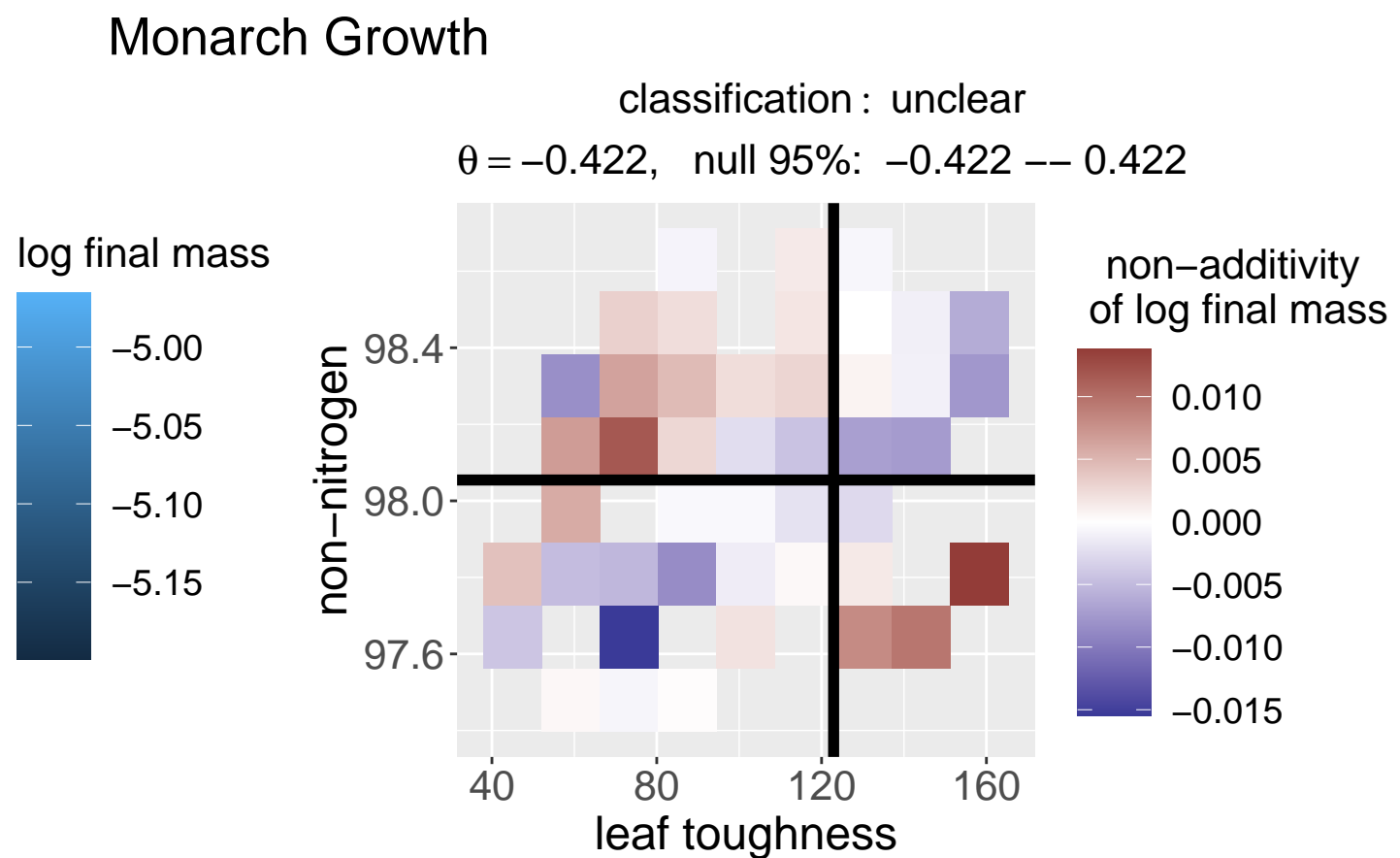
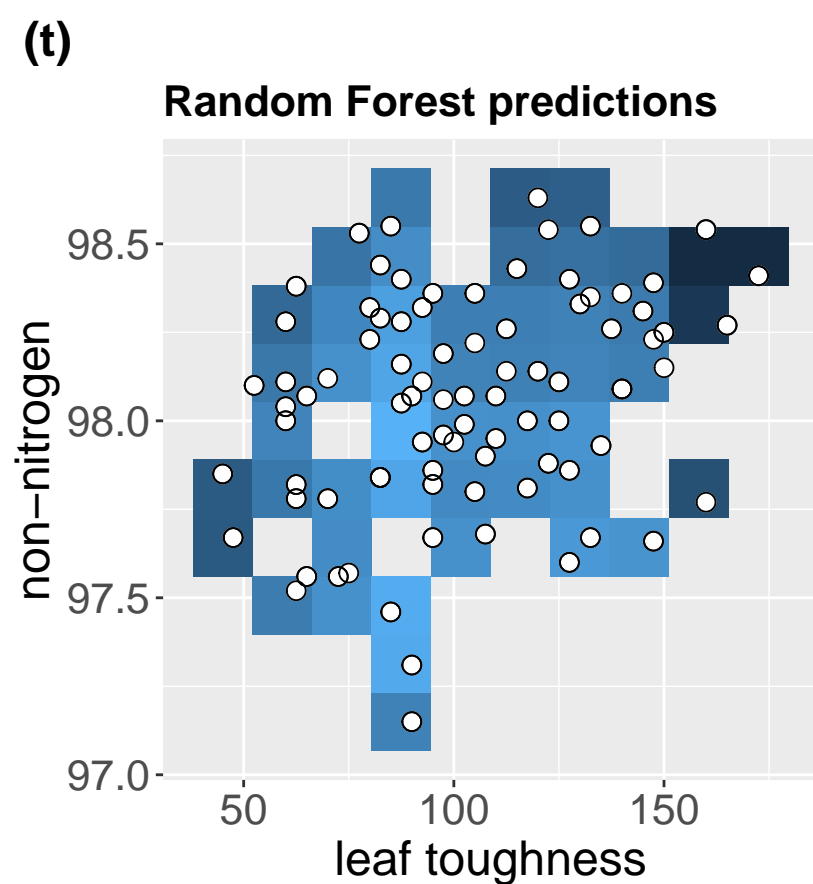
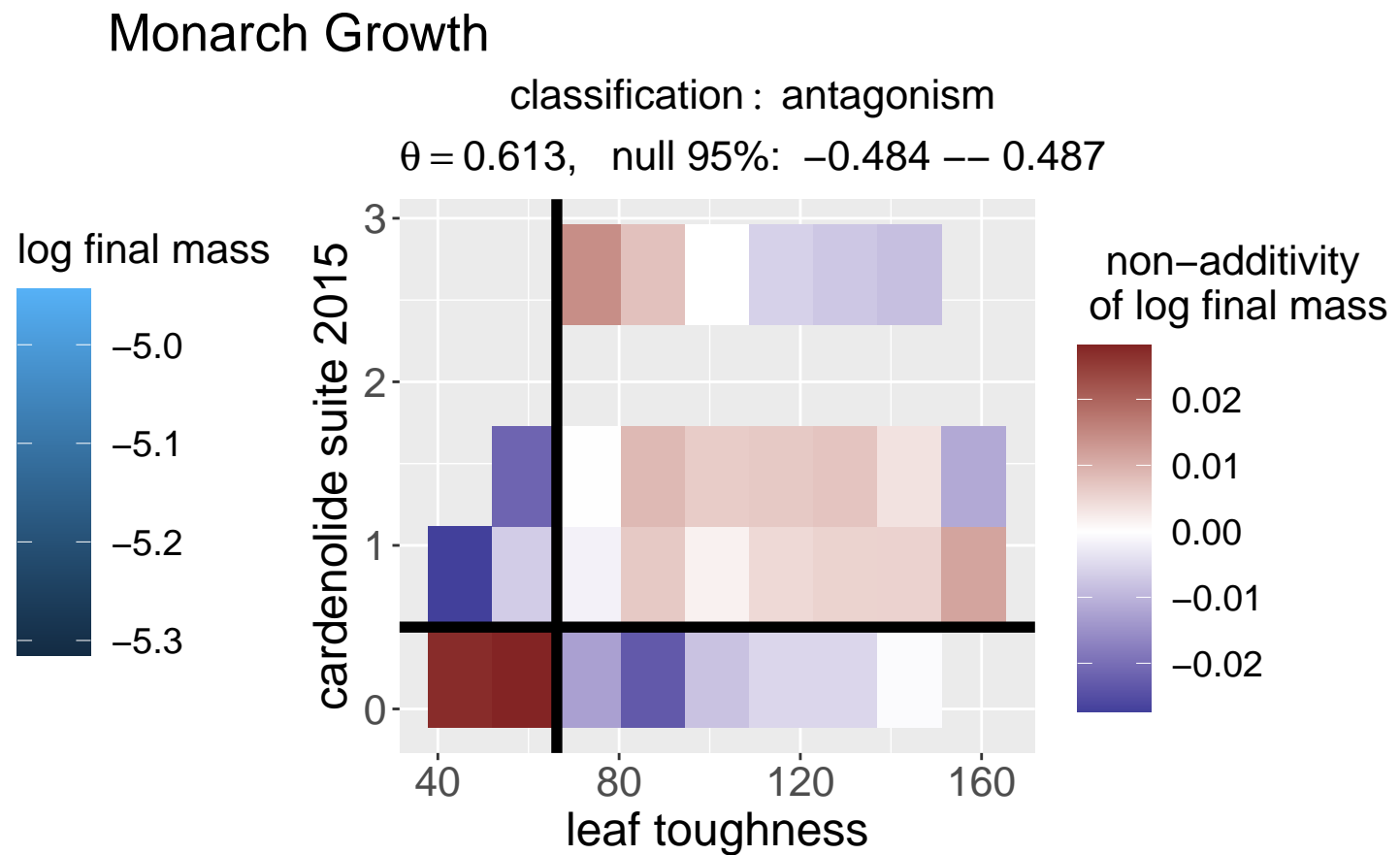
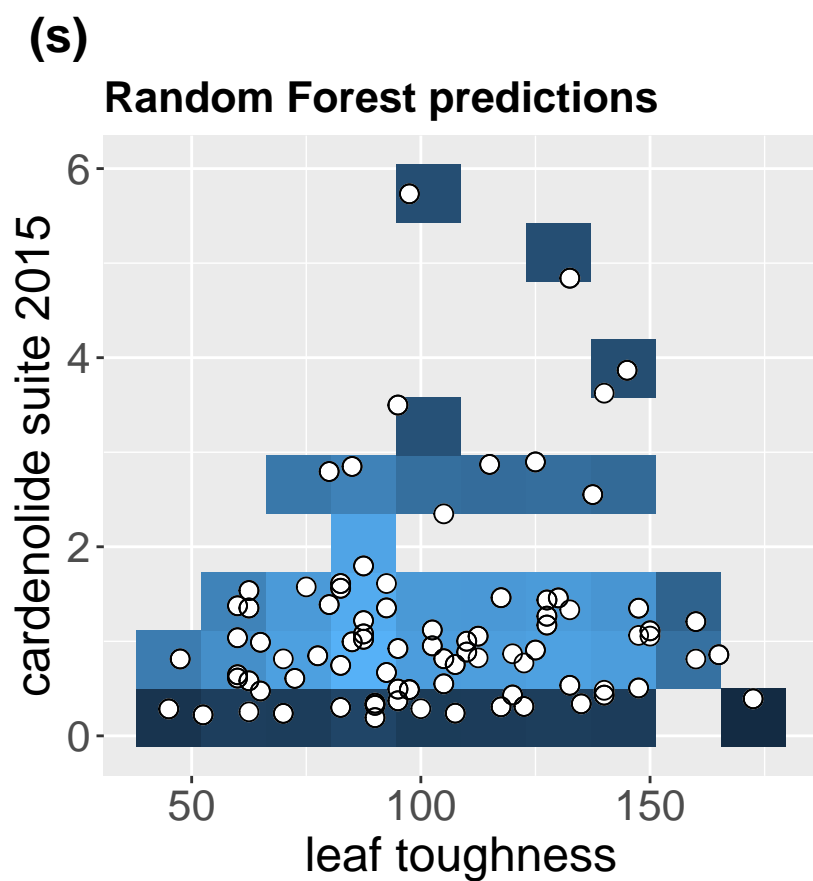
 $\theta = 0.469$, null 95%: -0.429 -- 0.388**(r)**

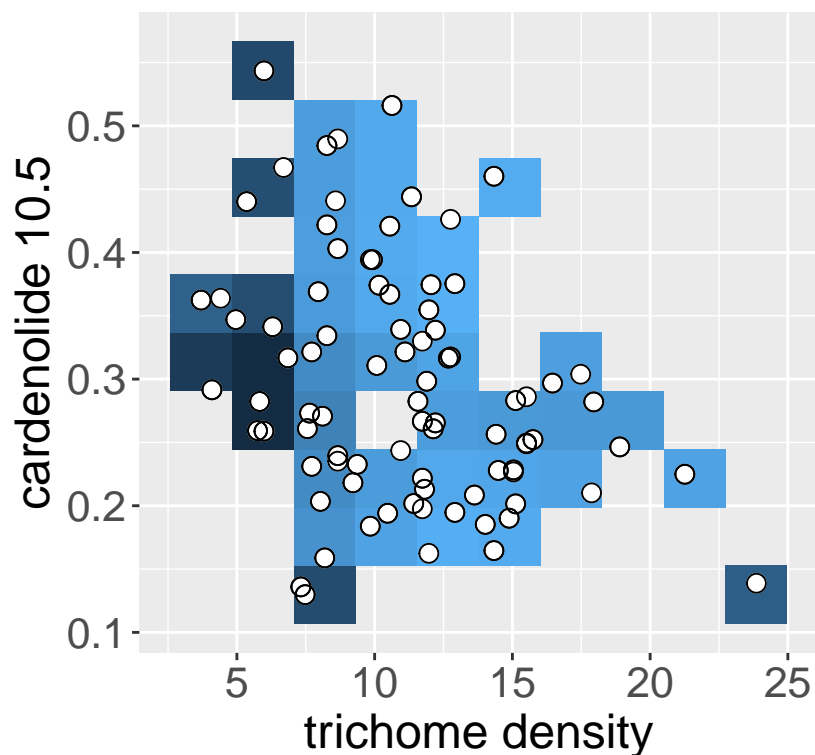
Monarch Growth



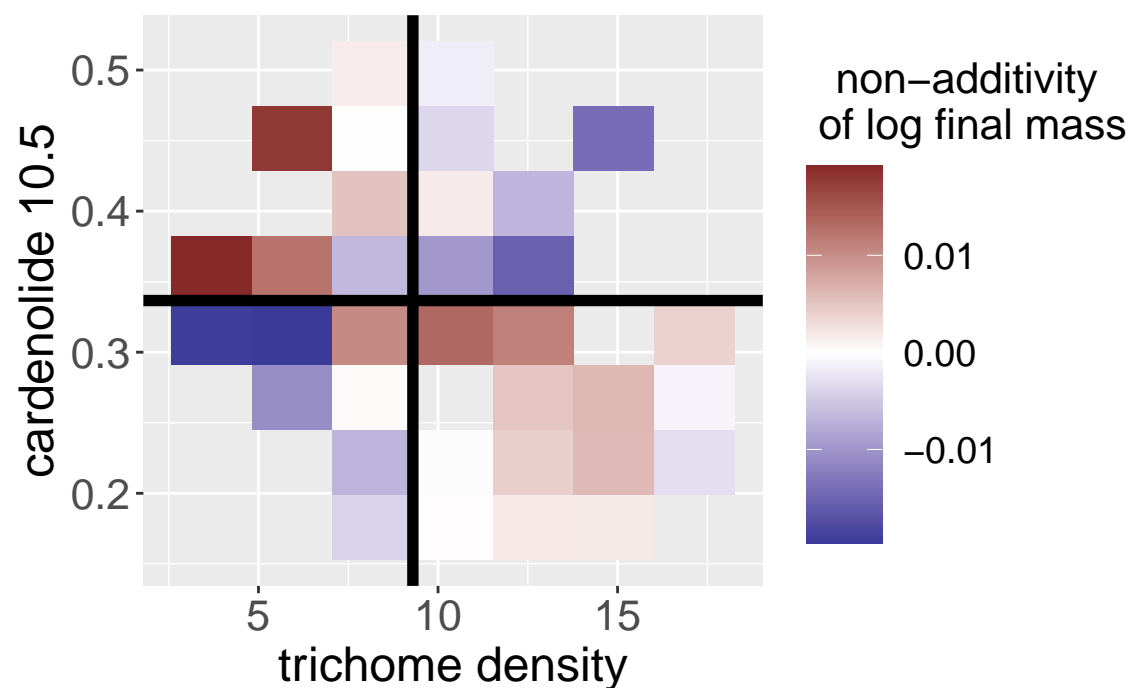
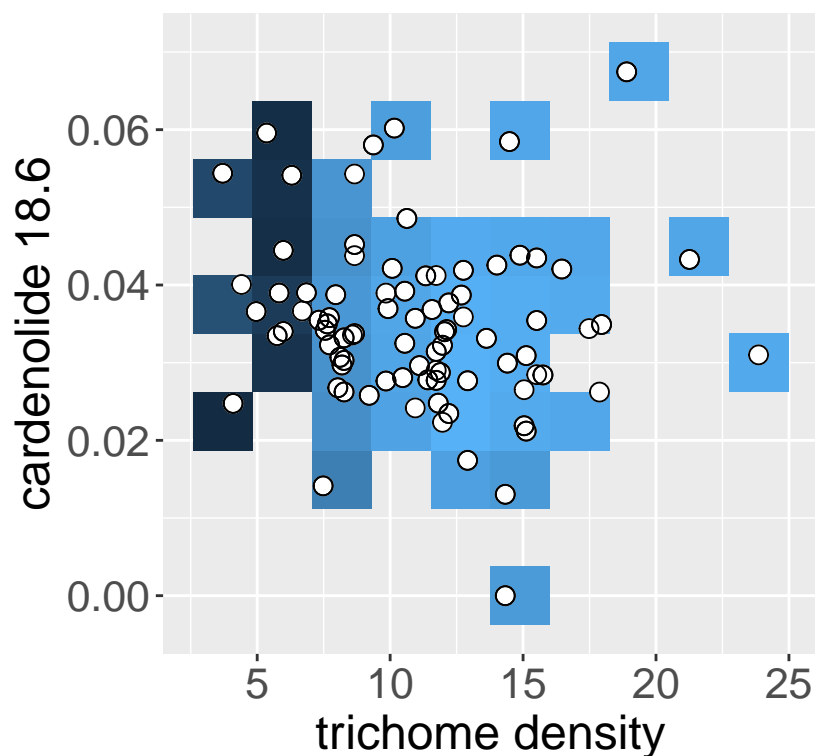
classification : unclear

 $\theta = 0.389$, null 95%: -0.444 -- 0.444

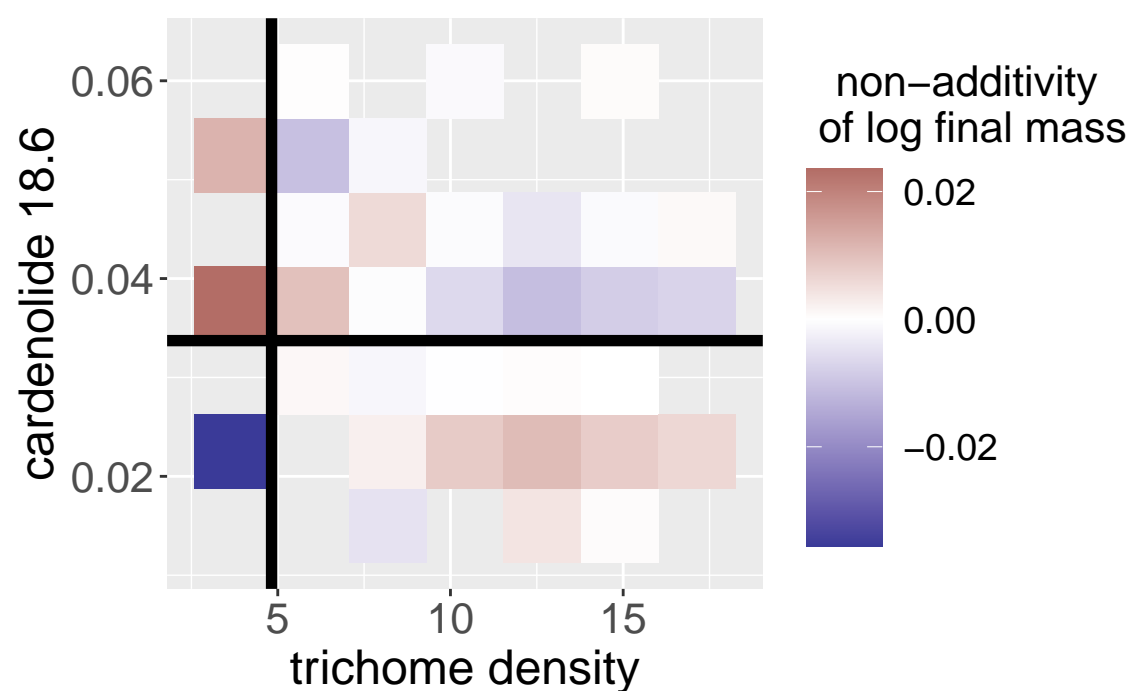
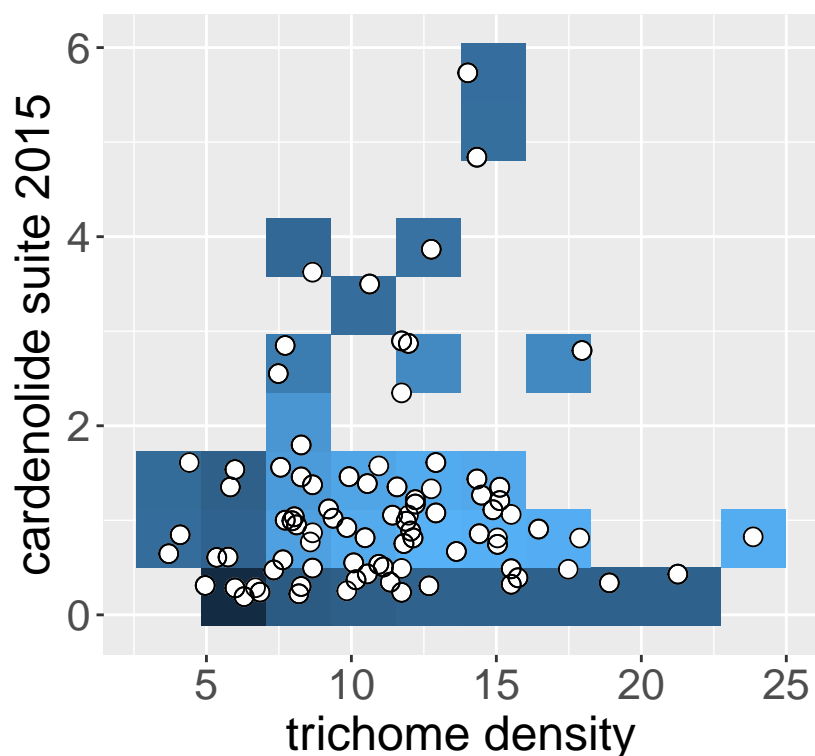


(v)**Random Forest predictions****Monarch Growth**

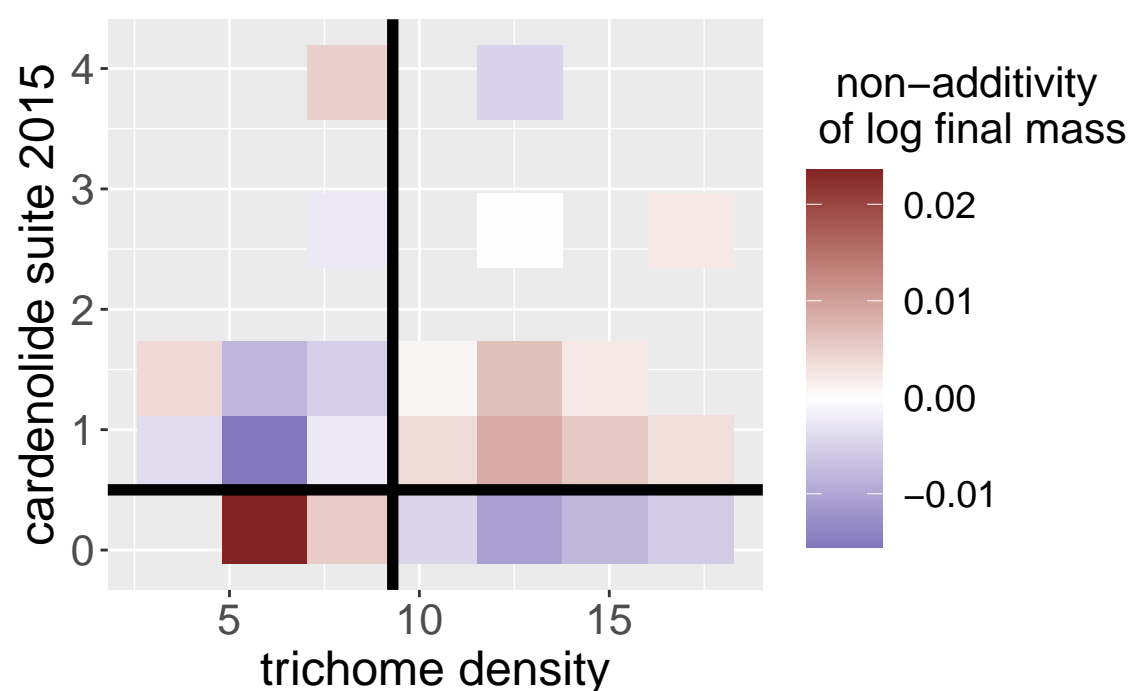
classification : synergy

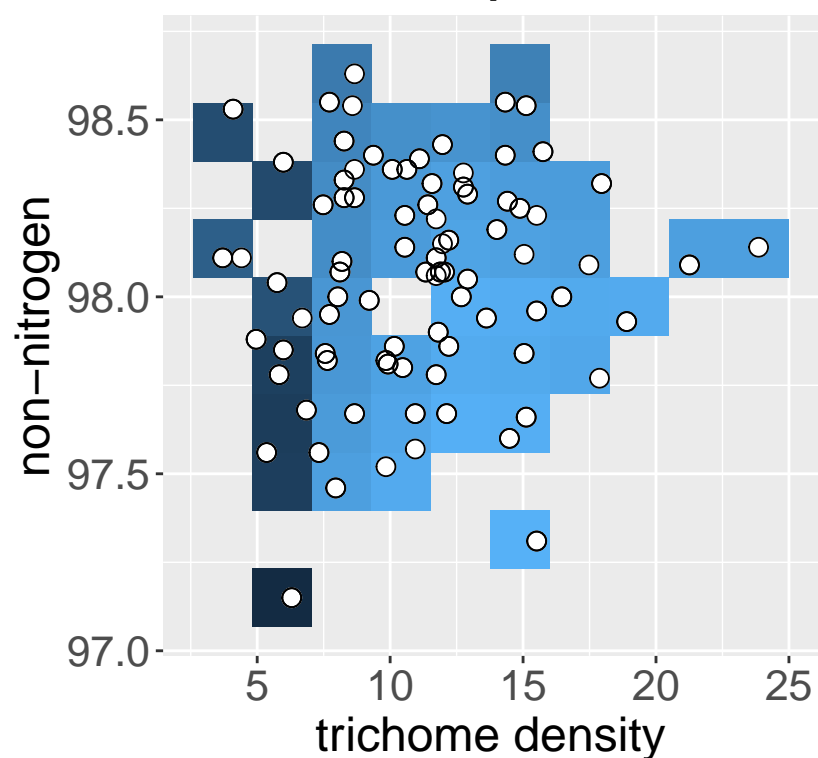
 $\theta = -0.529$, null 95%: -0.471 -- 0.471 **(w)****Random Forest predictions****Monarch Growth**

classification : unclear

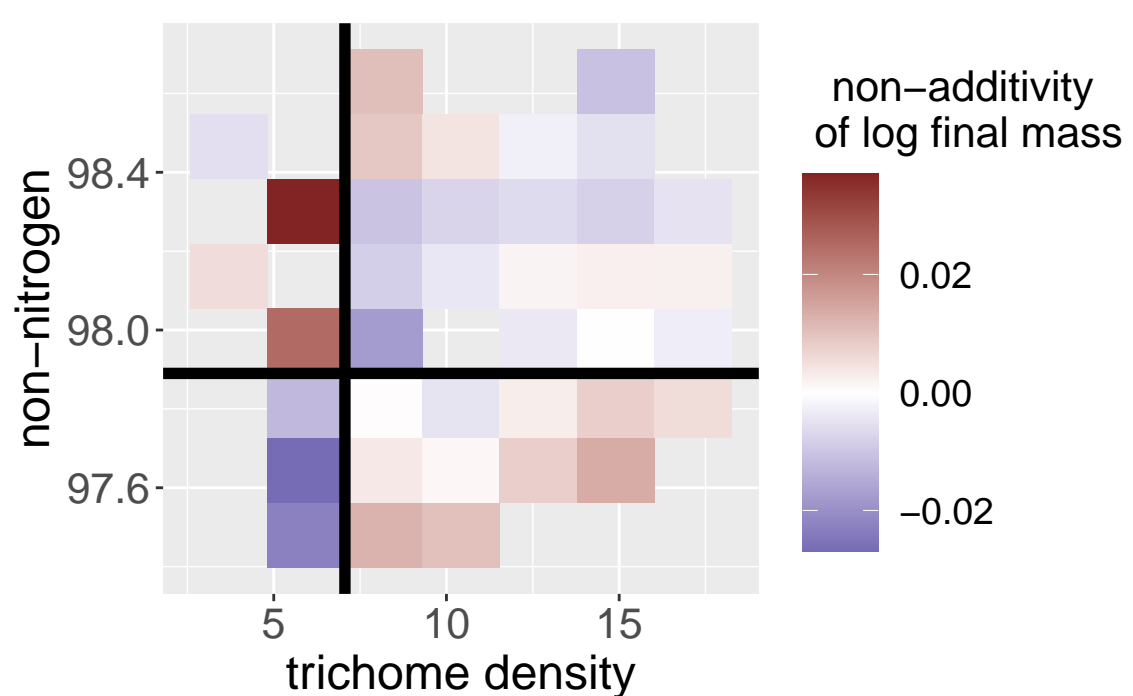
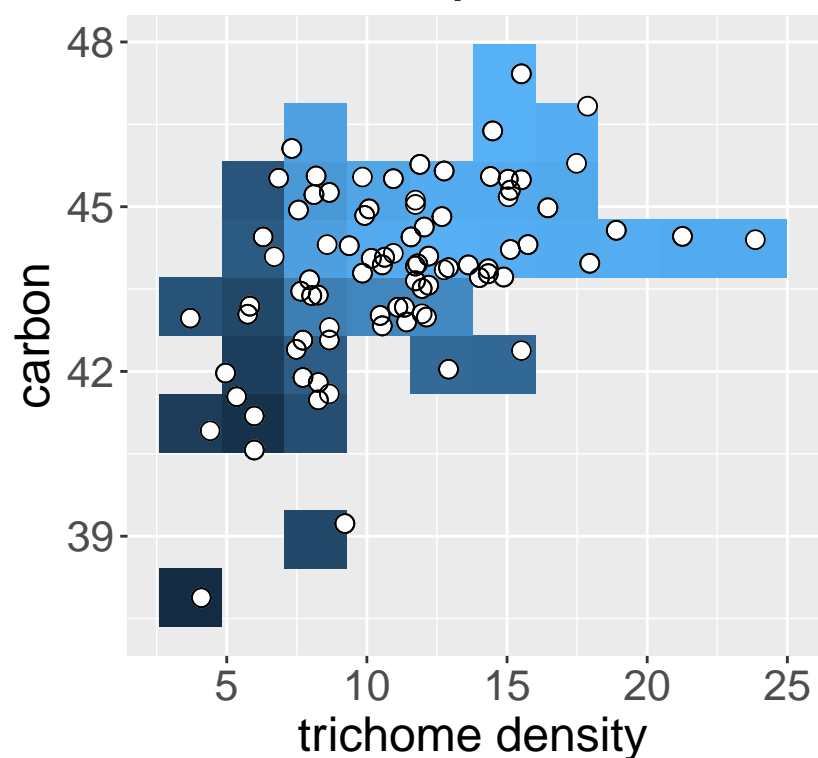
 $\theta = -0.515$, null 95%: -0.515 -- 0.515 **(x)****Random Forest predictions****Monarch Growth**

classification : antagonism

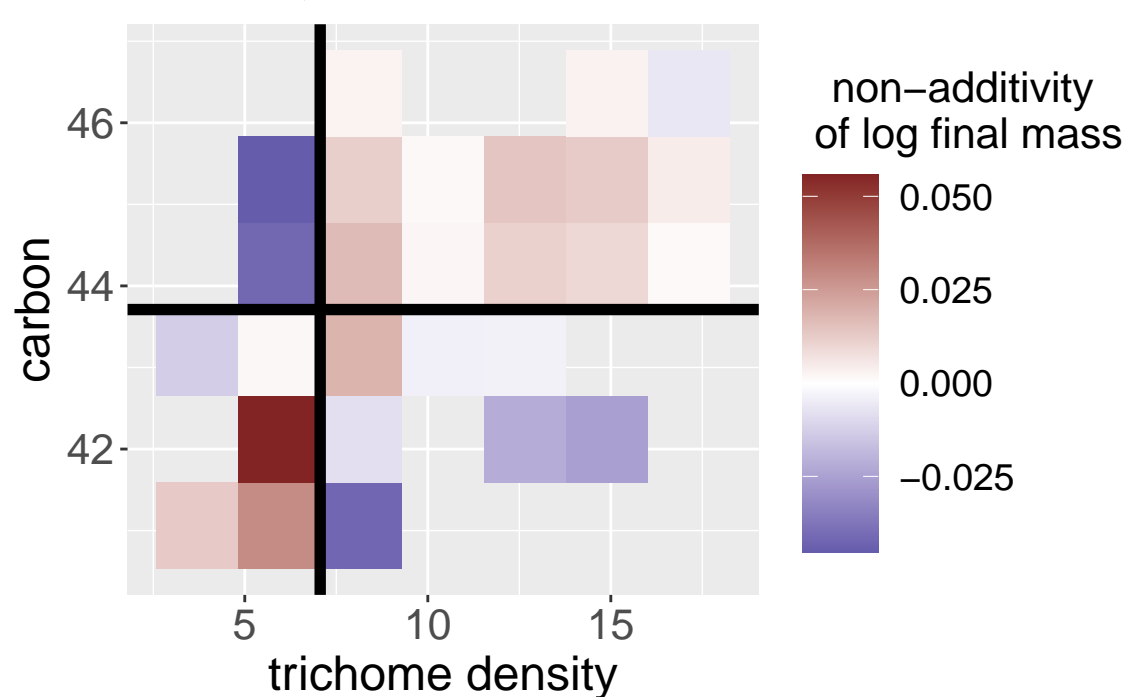
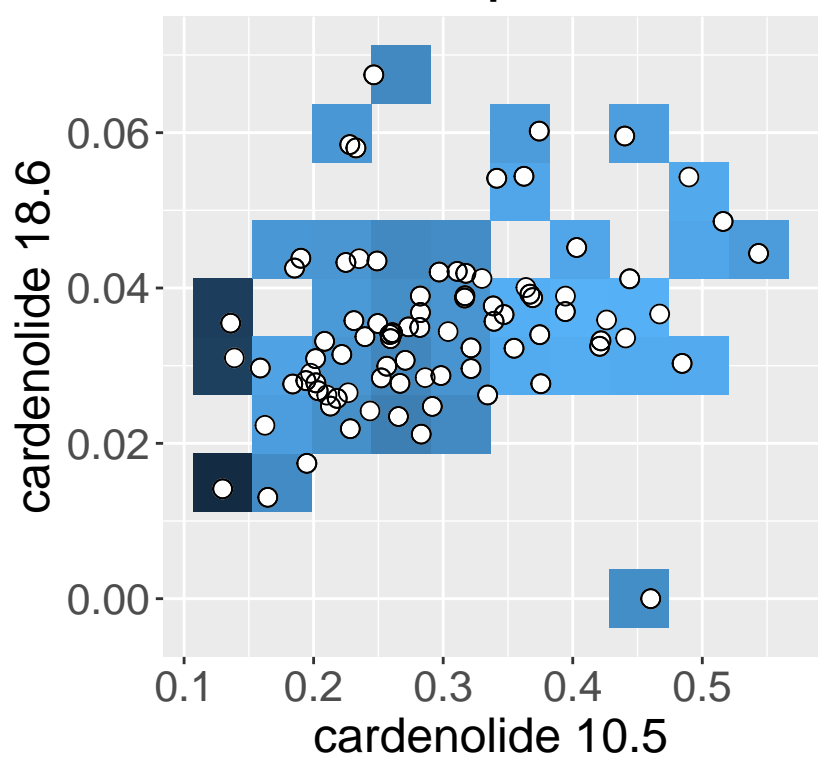
 $\theta = 0.75$, null 95%: -0.583 -- 0.583 

(y)**Random Forest predictions****Monarch Growth**

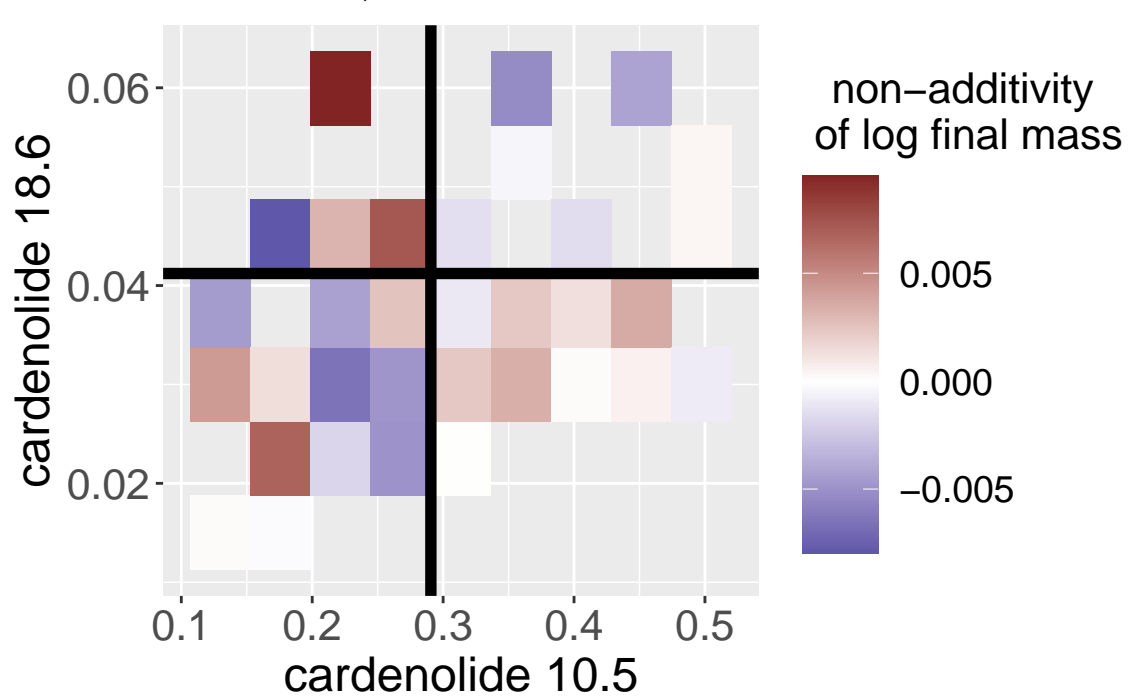
classification : synergy

 $\theta = -0.579$, null 95%: -0.474 -- 0.474 **(z)****Random Forest predictions****Monarch Growth**

classification : antagonism

 $\theta = 0.778$, null 95%: -0.481 -- 0.481 **(aa)****Random Forest predictions****Monarch Growth**

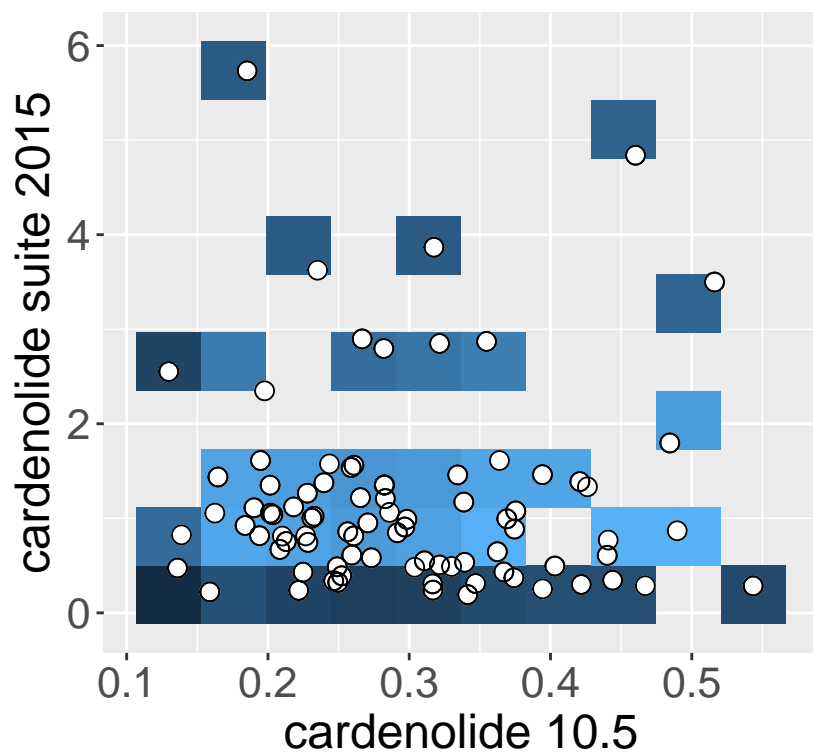
classification : unclear

 $\theta = -0.394$, null 95%: -0.455 -- 0.515 

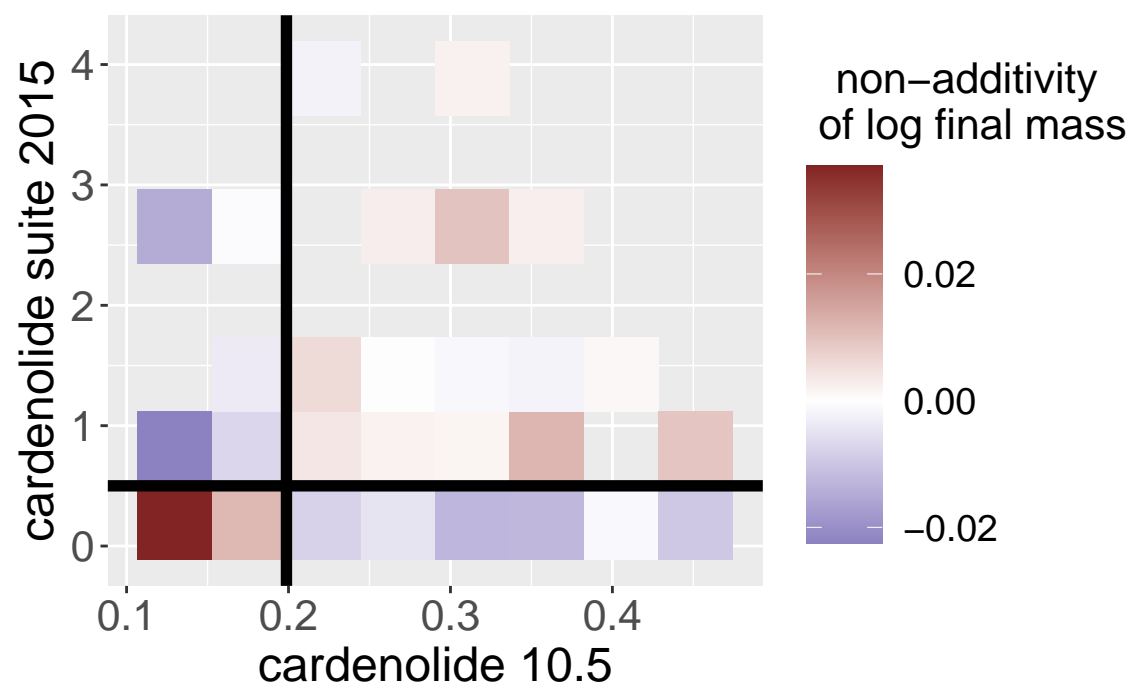
(ab)

Monarch Growth

Random Forest predictions

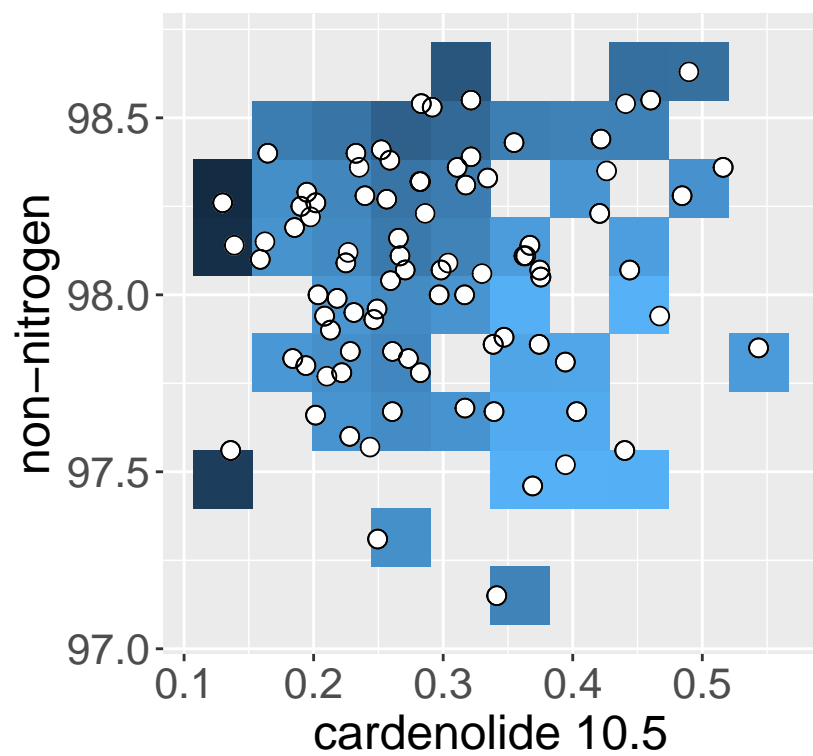


classification : antagonism

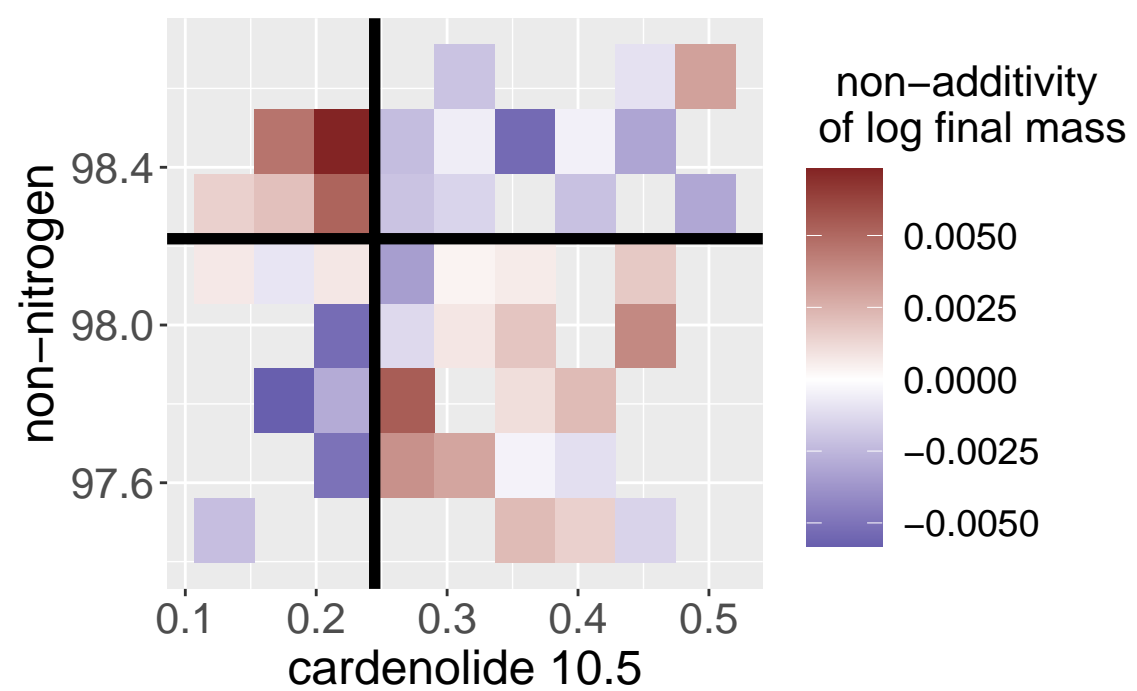
 $\theta = 0.714$, null 95%: -0.571 -- 0.571 **(ac)**

Monarch Growth

Random Forest predictions

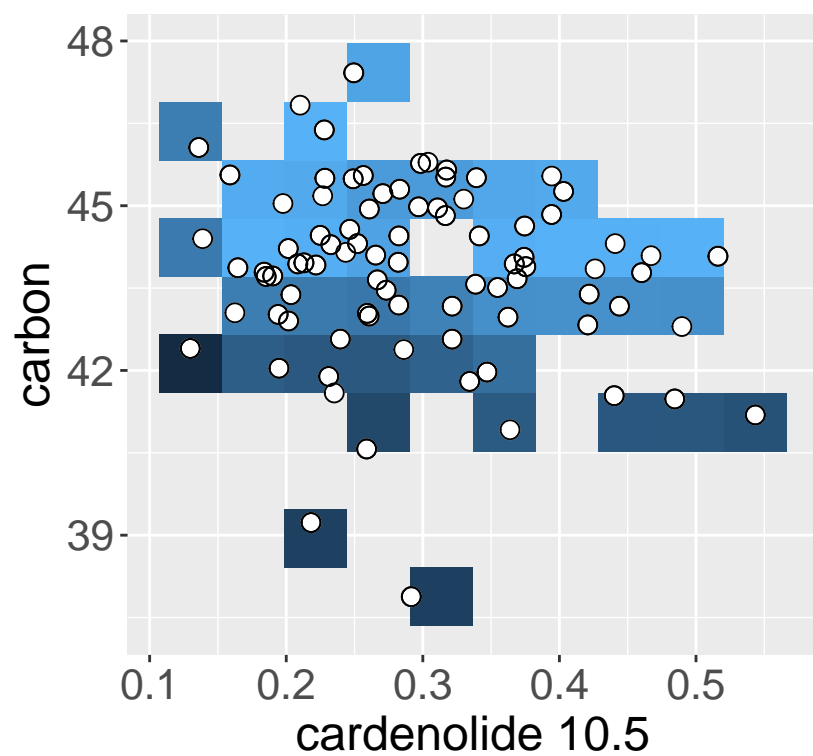


classification : synergy

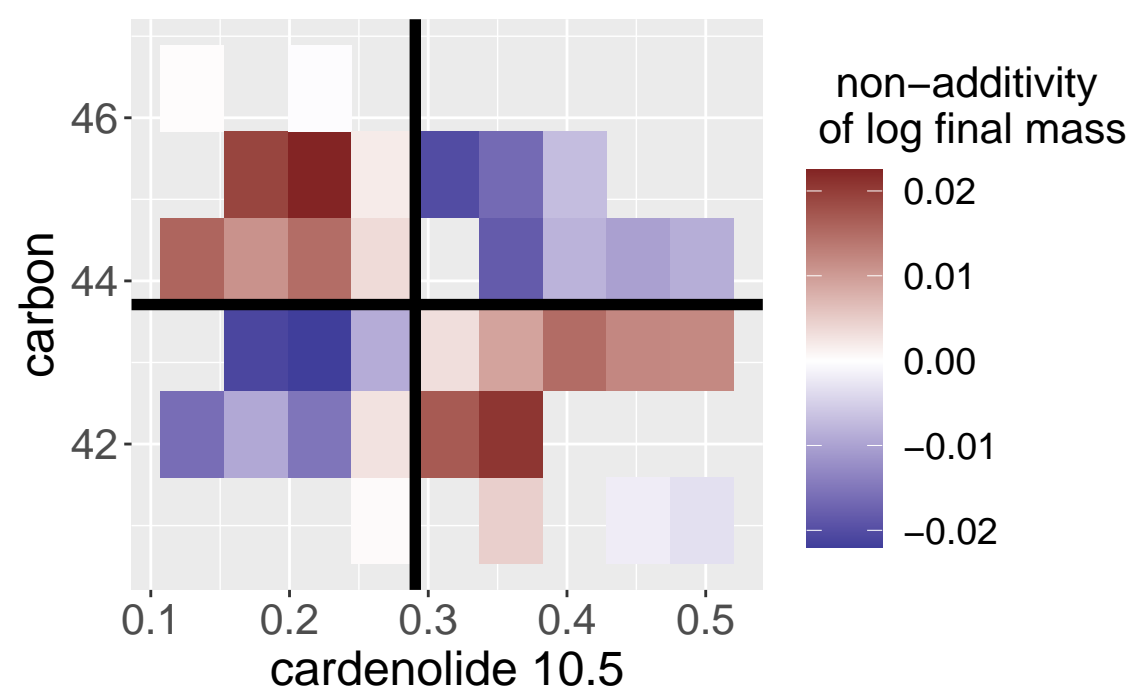
 $\theta = -0.628$, null 95%: -0.442 -- 0.442 **(ad)**

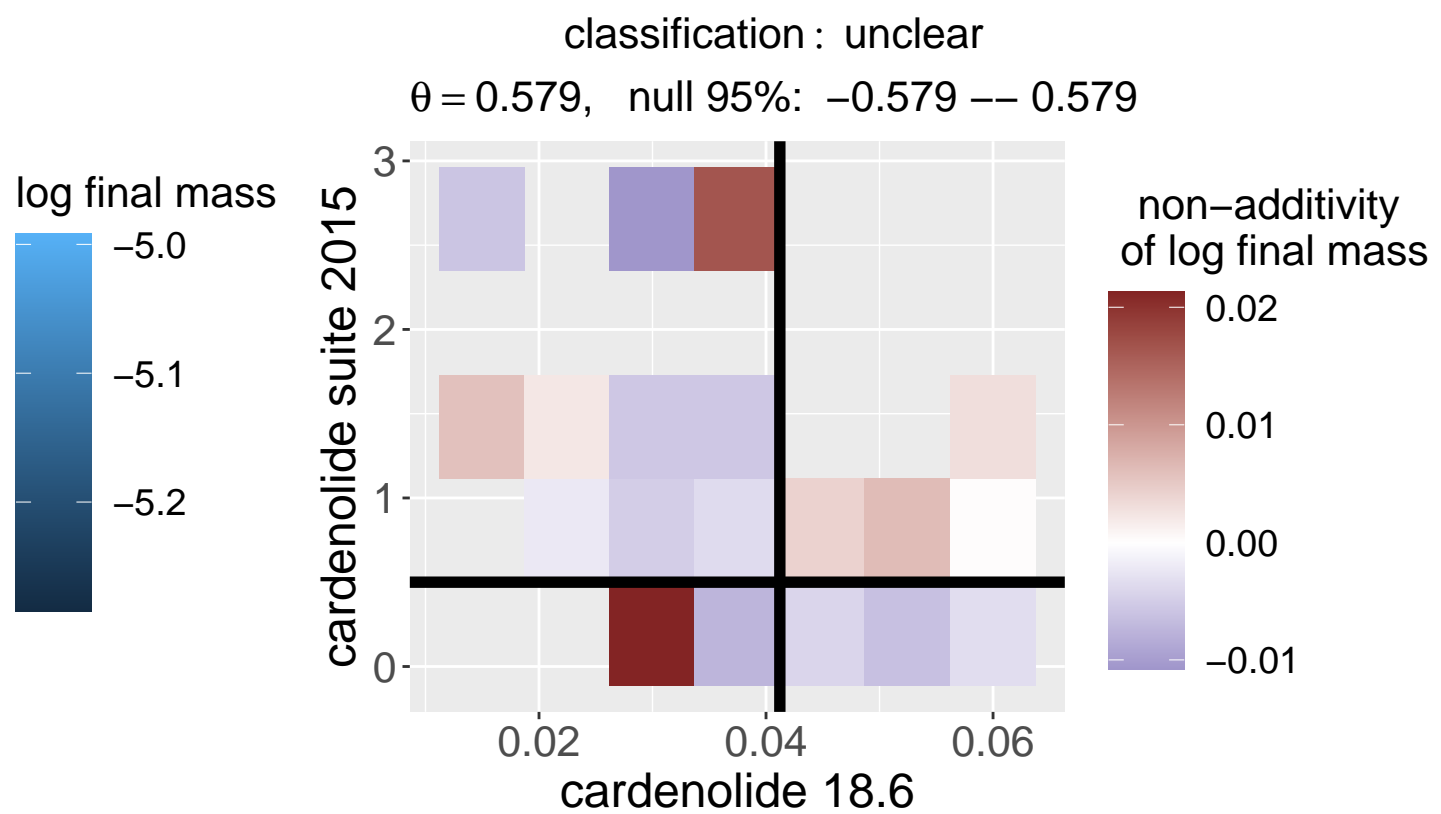
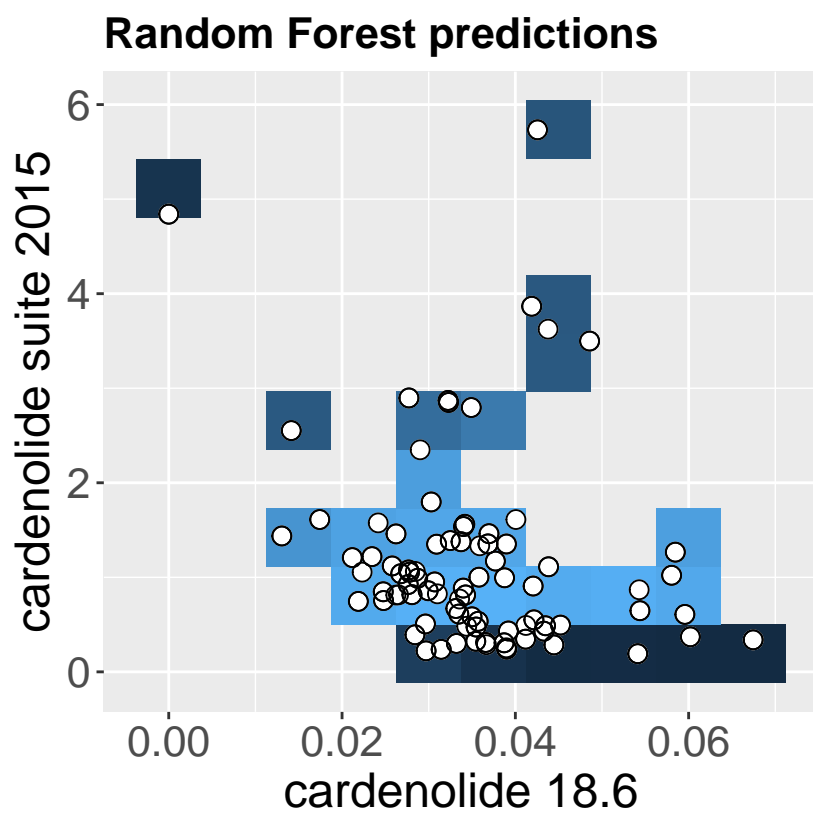
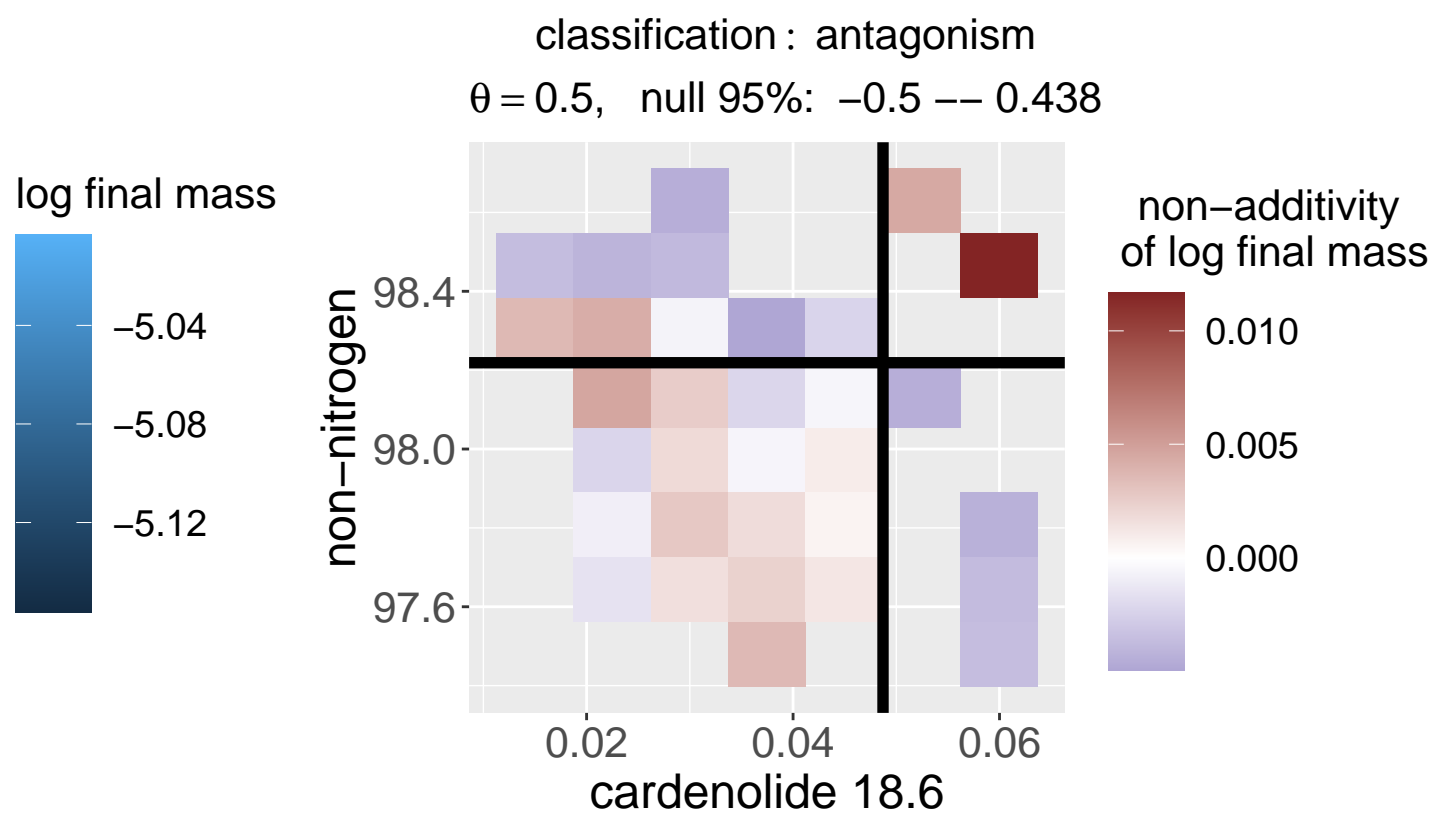
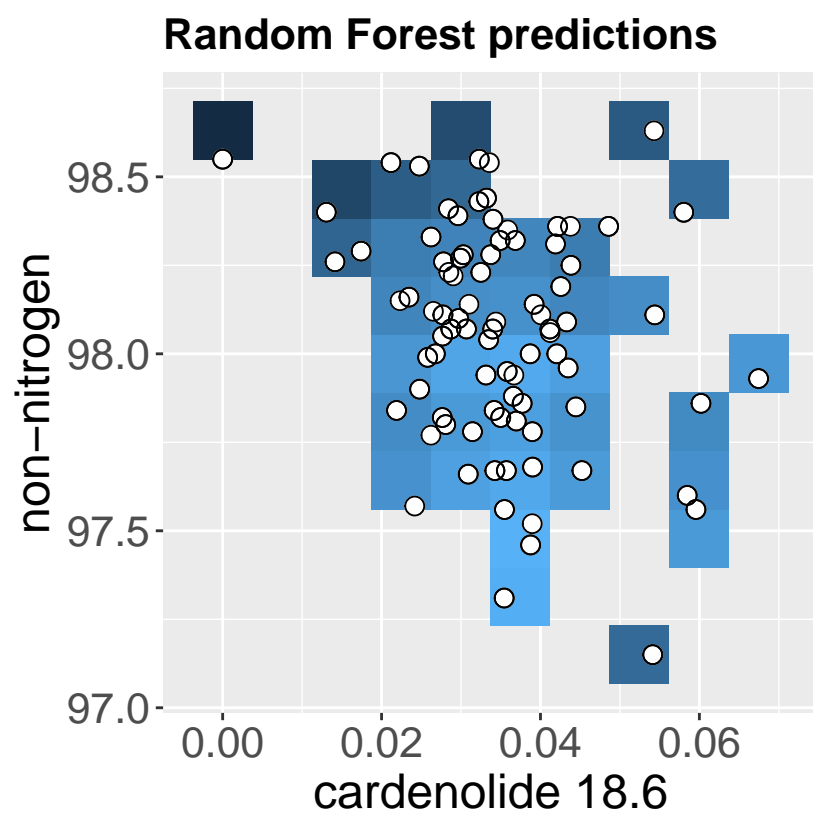
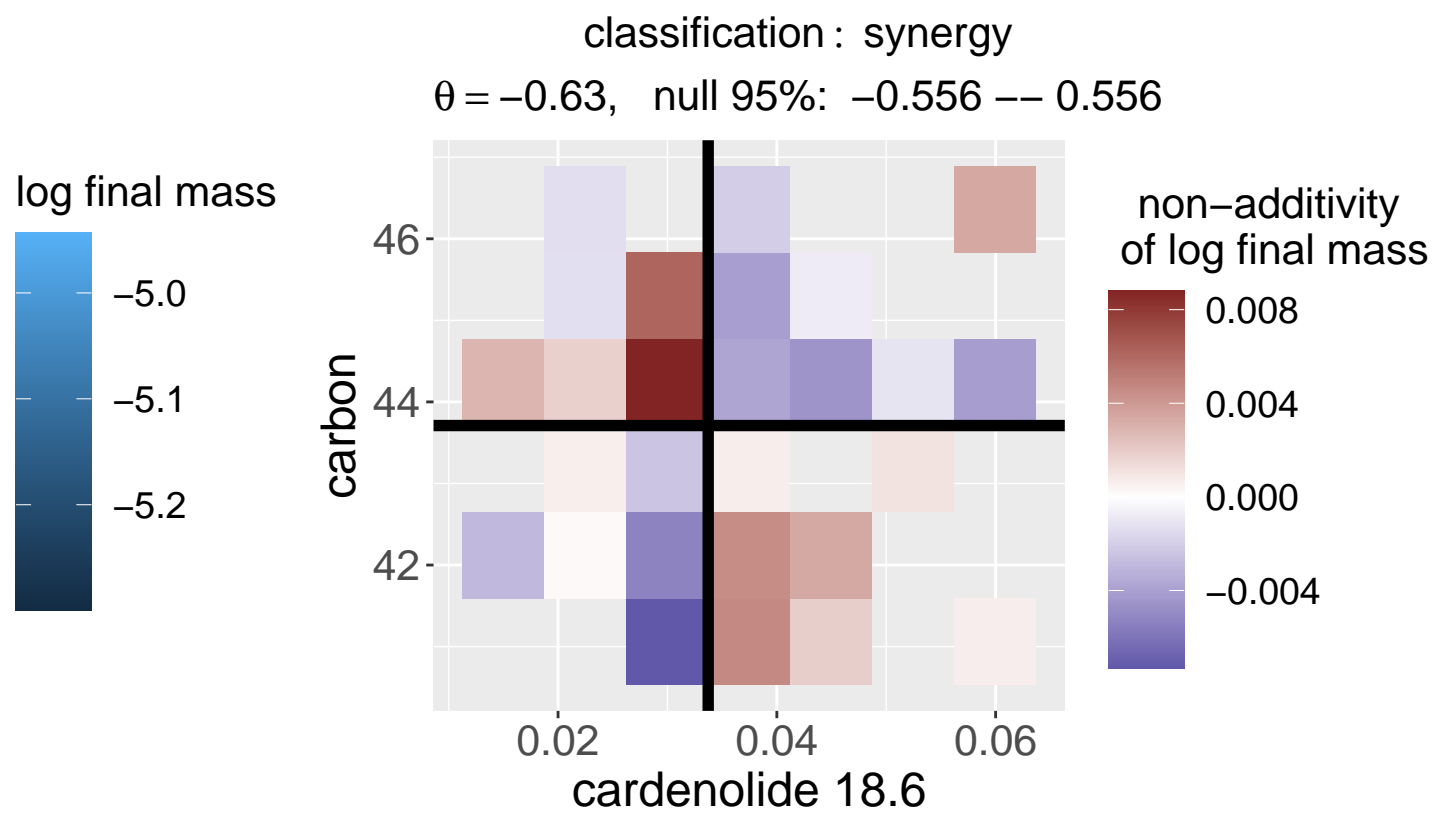
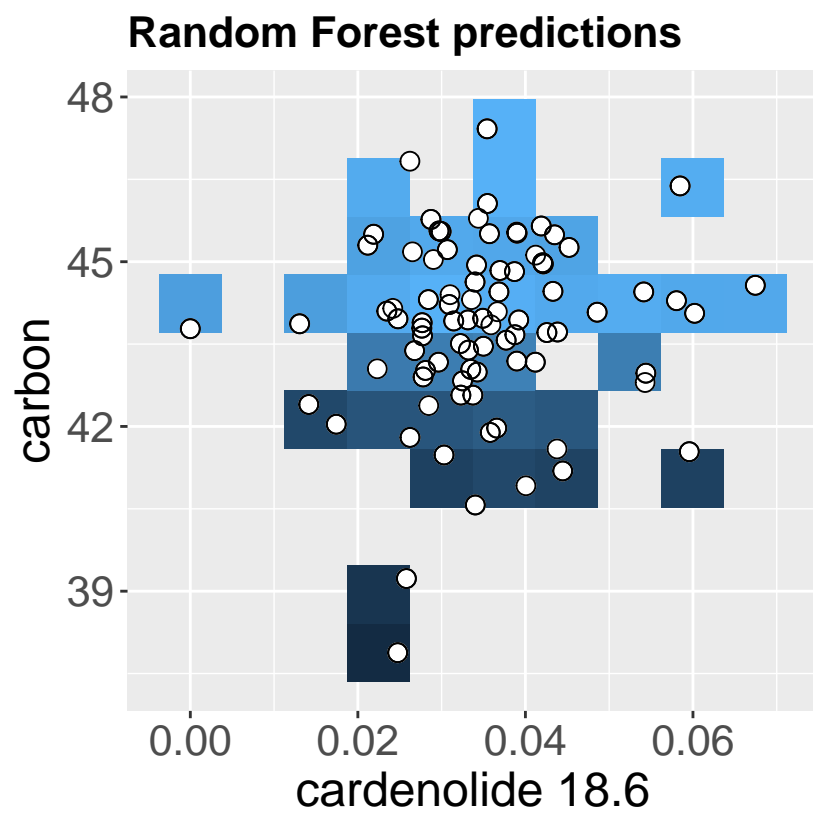
Monarch Growth

Random Forest predictions



classification : synergy

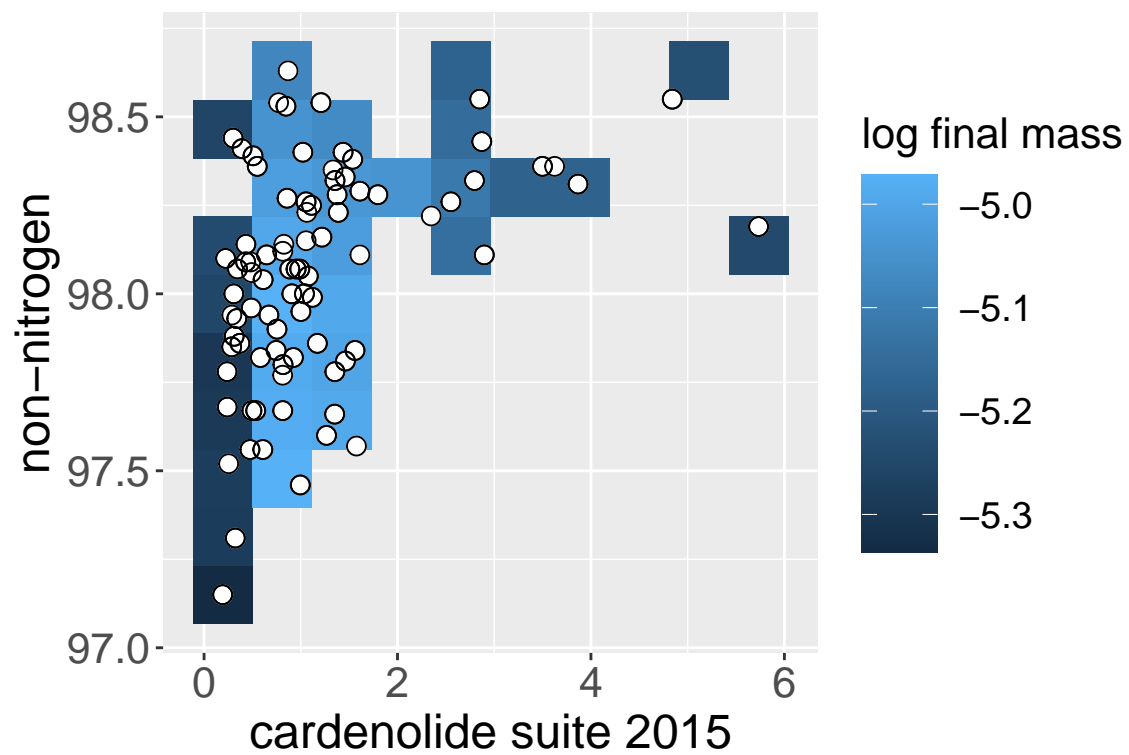
 $\theta = -0.706$, null 95%: -0.471 -- 0.471 

(ae)**Monarch Growth****(af)****Monarch Growth****(ag)****Monarch Growth**

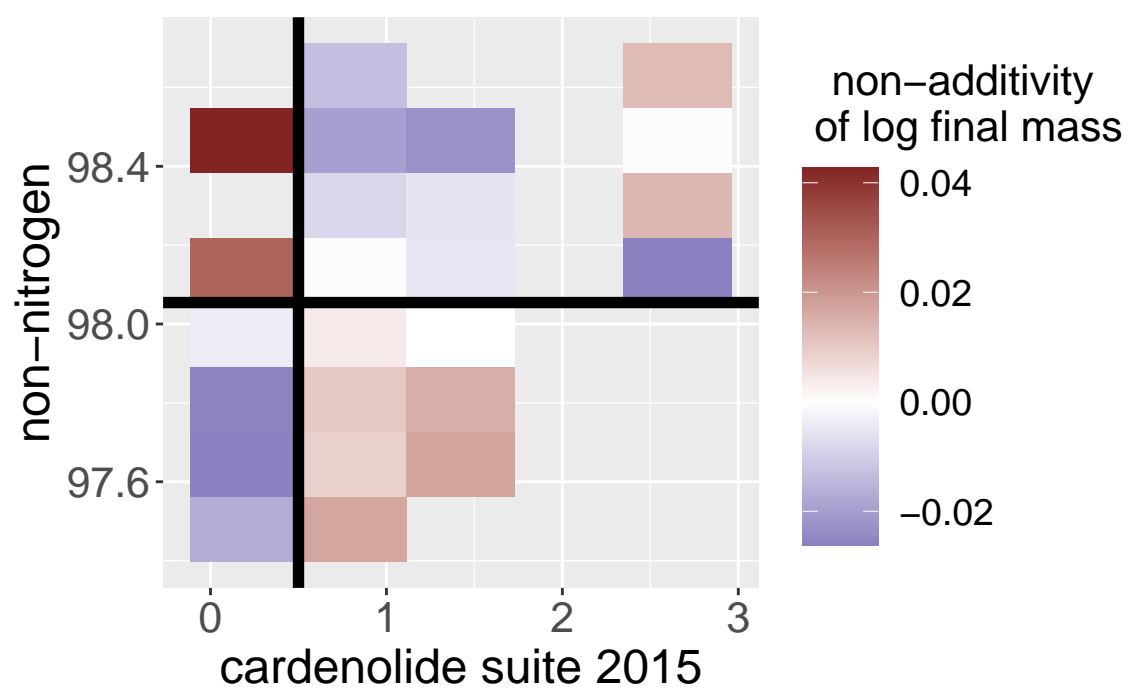
(ah)

Monarch Growth

Random Forest predictions

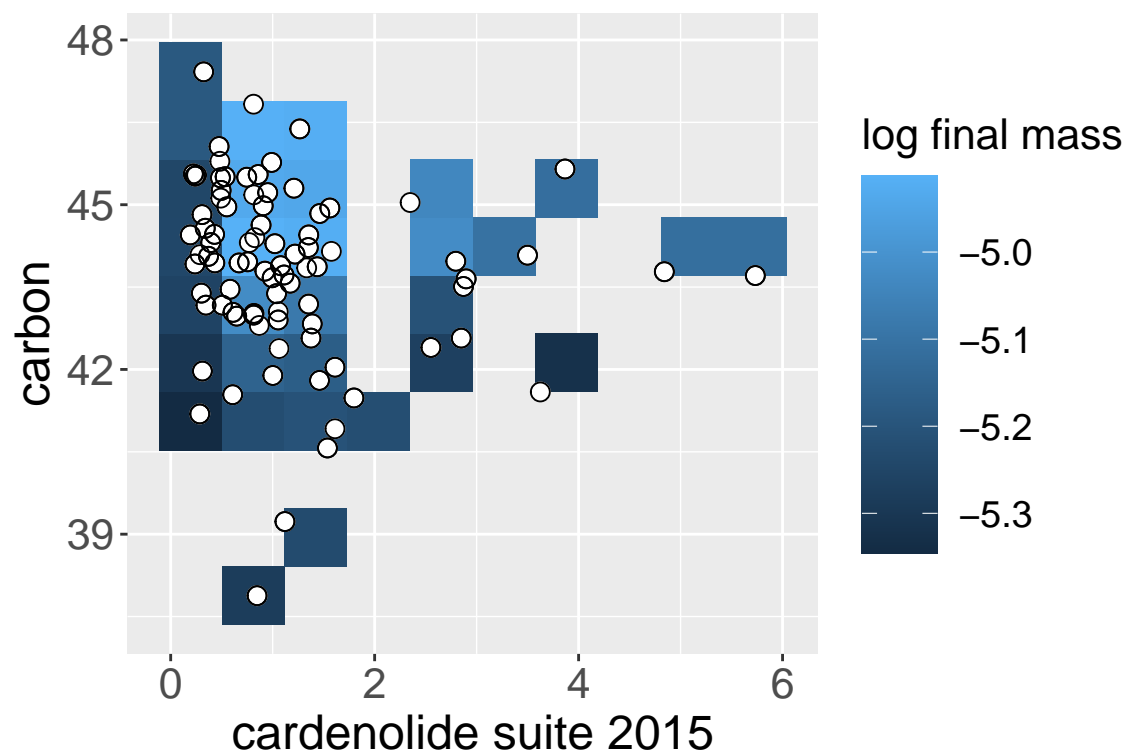


classification : synergy

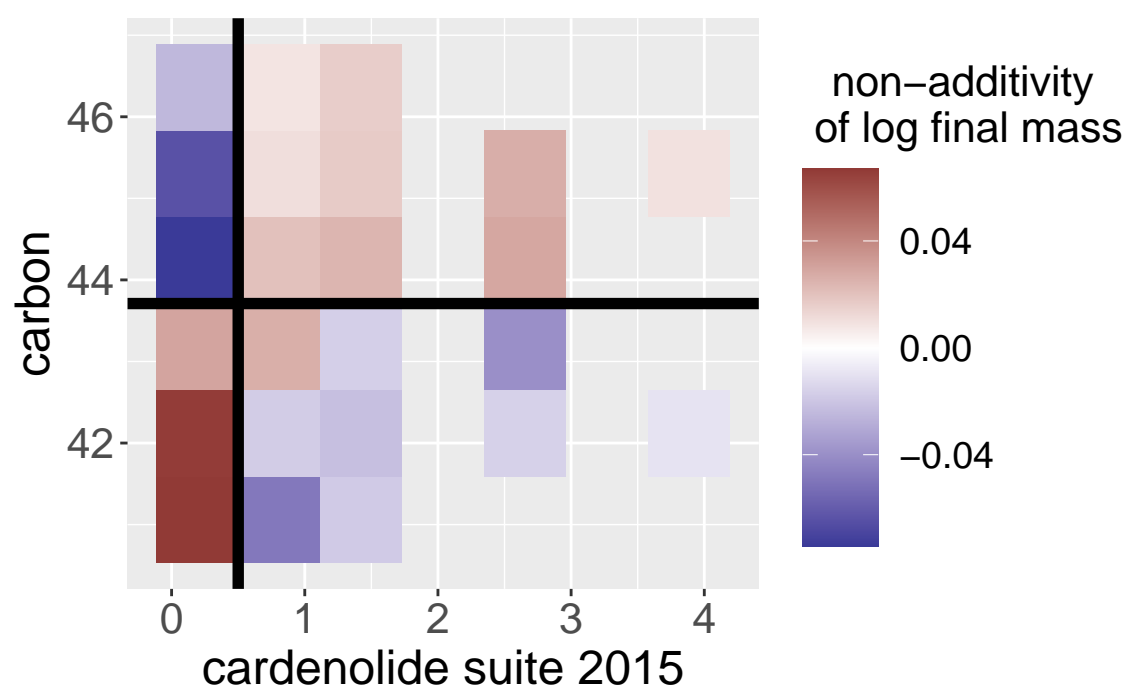
 $\theta = -0.75$, null 95%: -0.5 -- 0.583 **(ai)**

Monarch Growth

Random Forest predictions

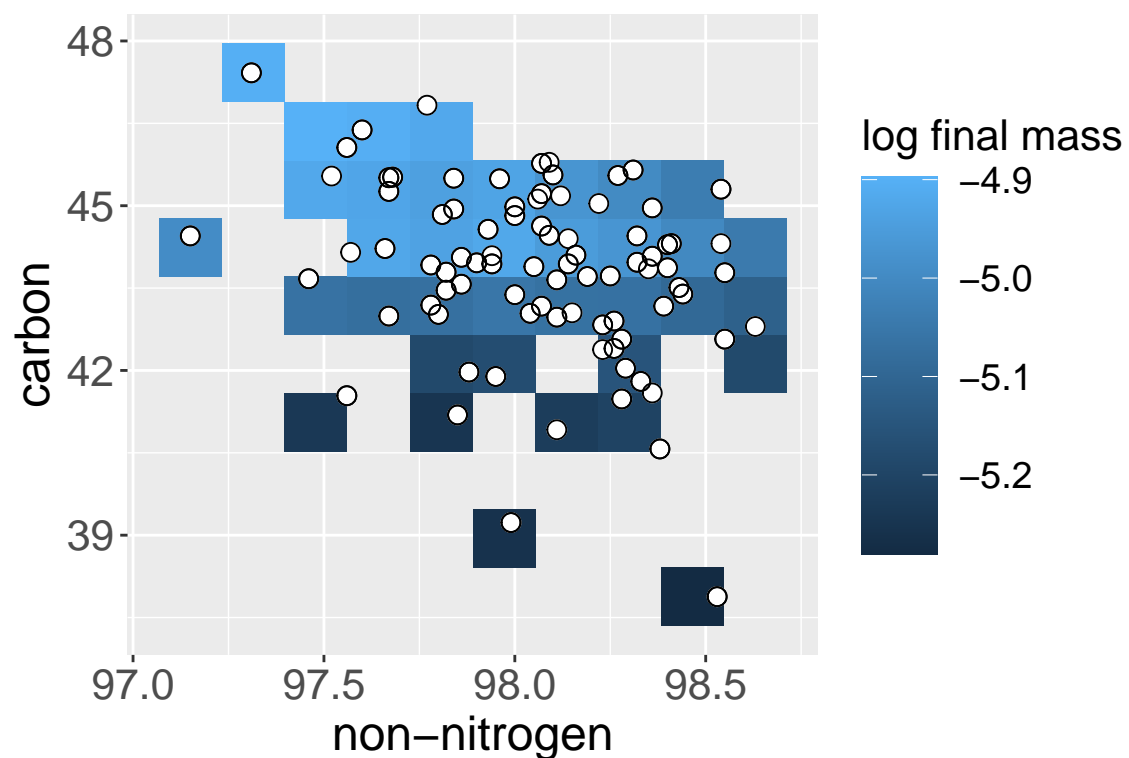


classification : antagonism

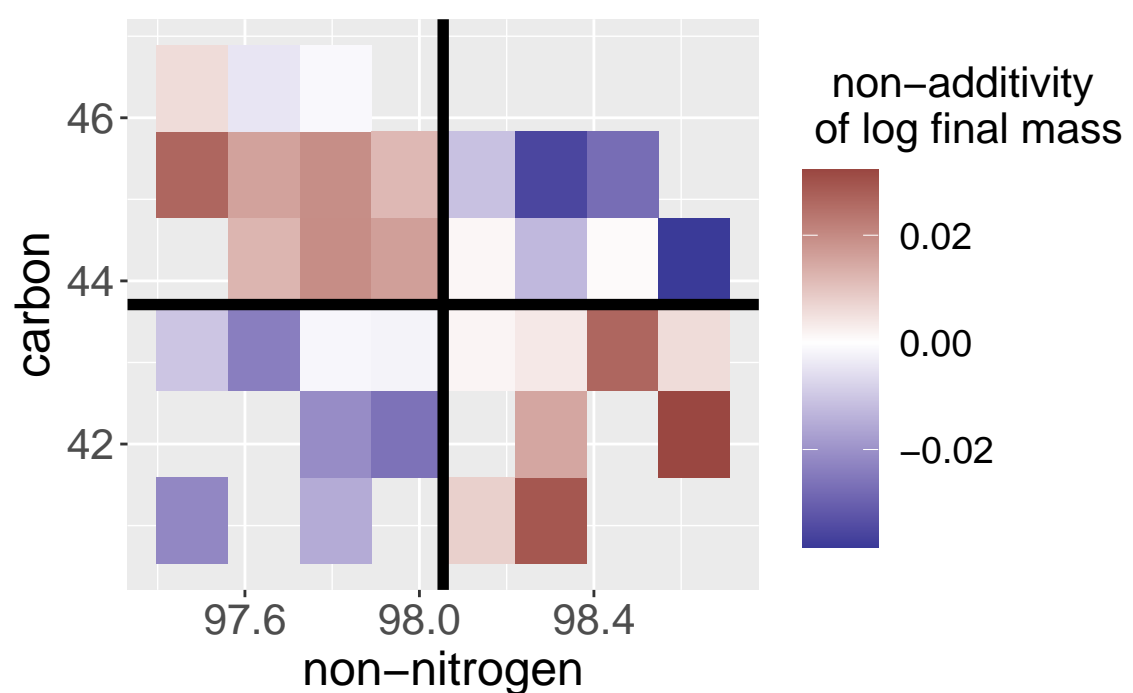
 $\theta = 0.917$, null 95%: -0.583 -- 0.583 **(aj)**

Monarch Growth

Random Forest predictions



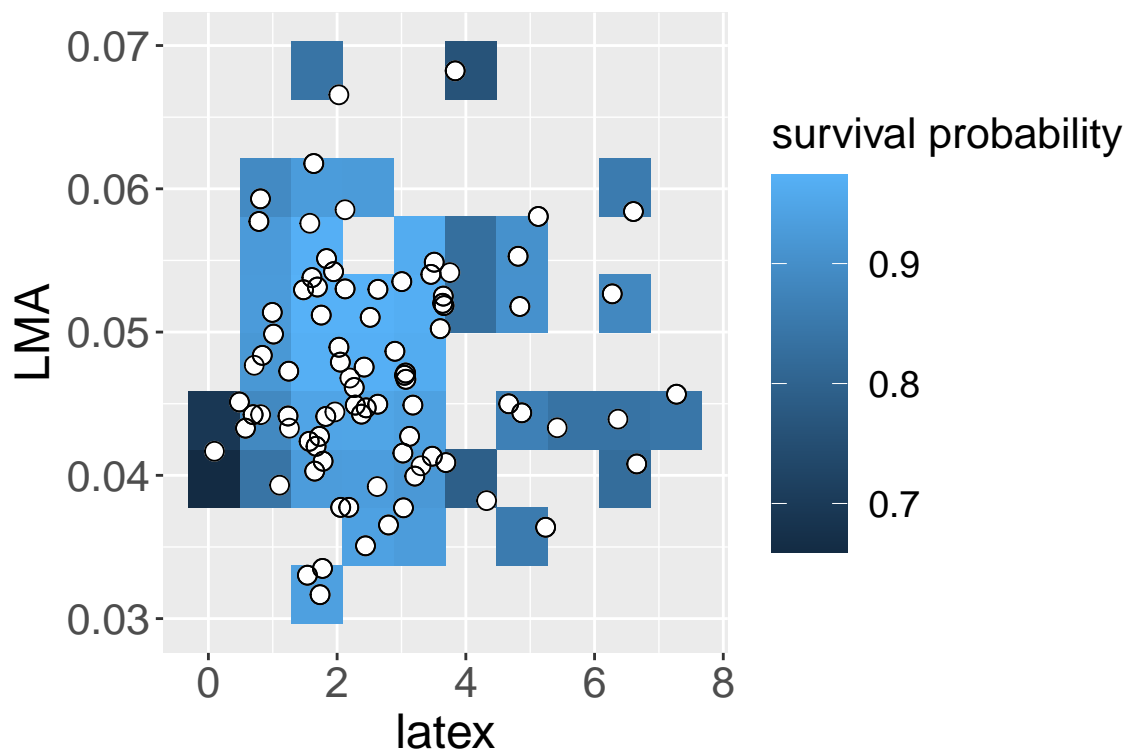
classification : synergy

 $\theta = -0.758$, null 95%: -0.455 -- 0.455 

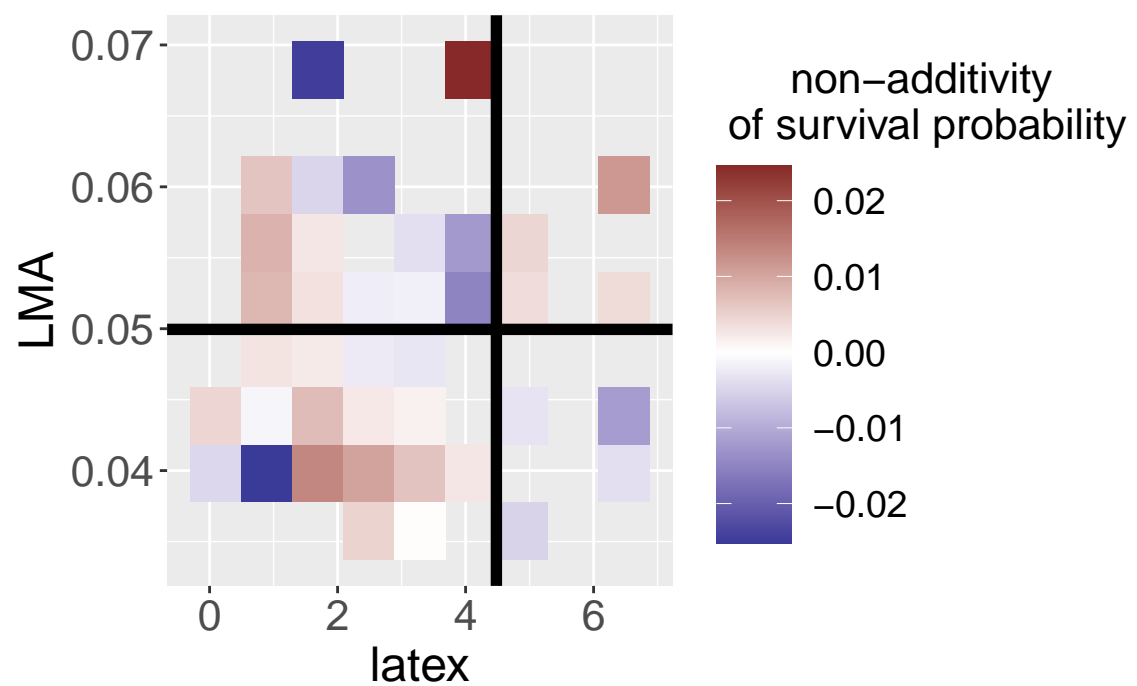
(ak)

Monarch Survival

Random Forest predictions

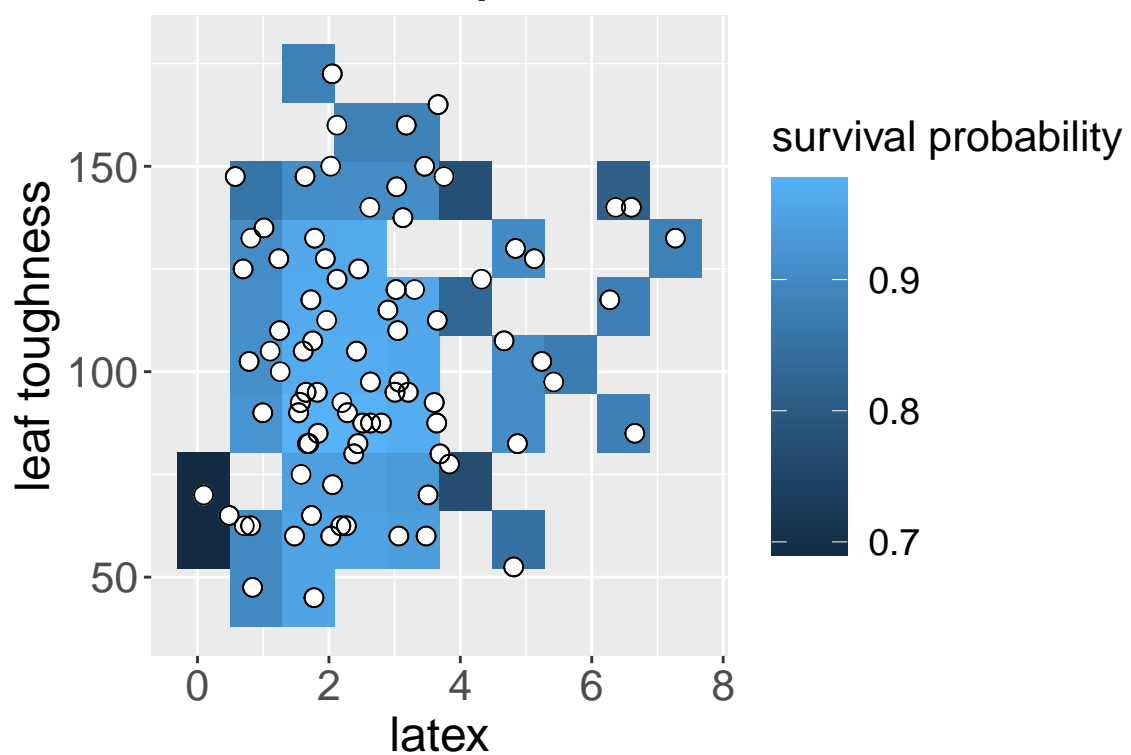


classification : unclear

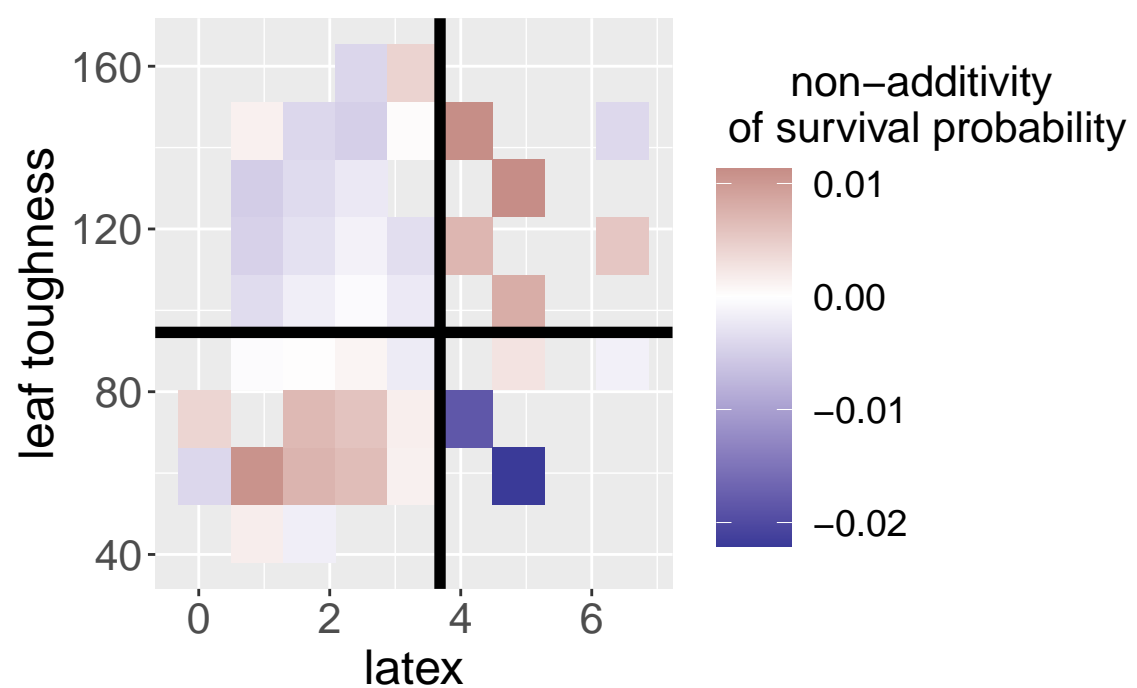
 $\theta = 0.436$, null 95%: -0.438 -- 0.436 **(al)**

Monarch Survival

Random Forest predictions

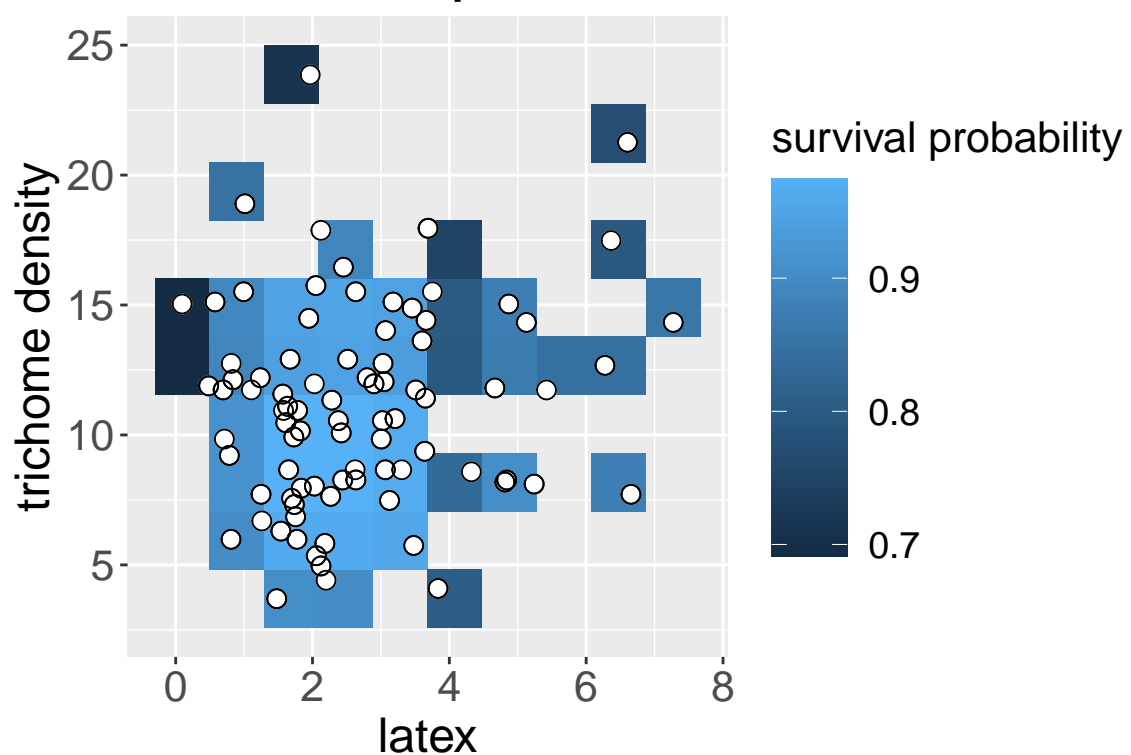


classification : antagonism

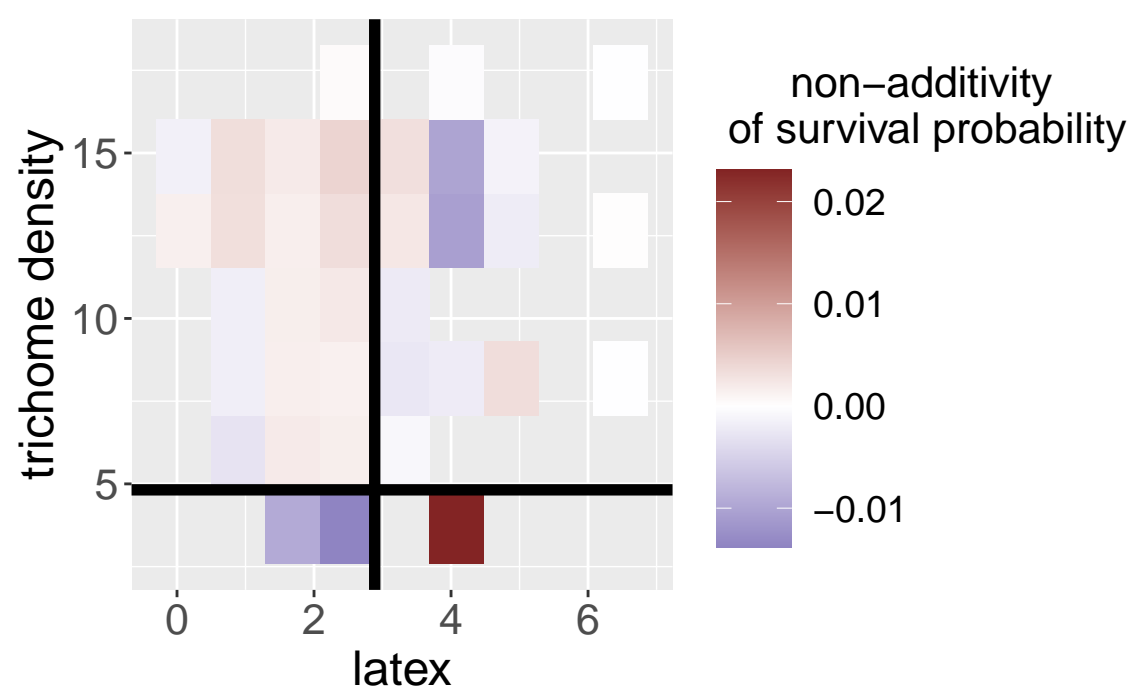
 $\theta = 0.571$, null 95%: -0.429 -- 0.429 **(am)**

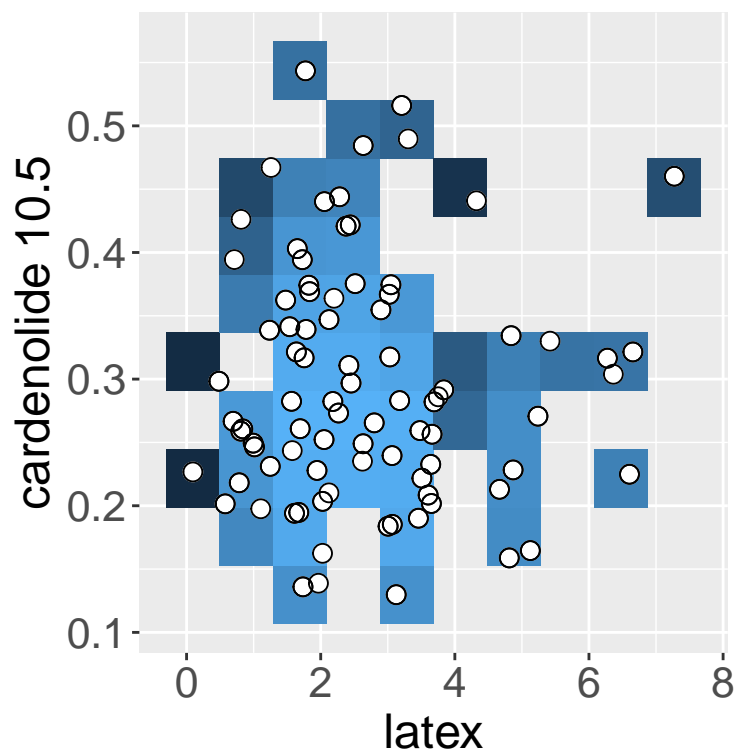
Monarch Survival

Random Forest predictions

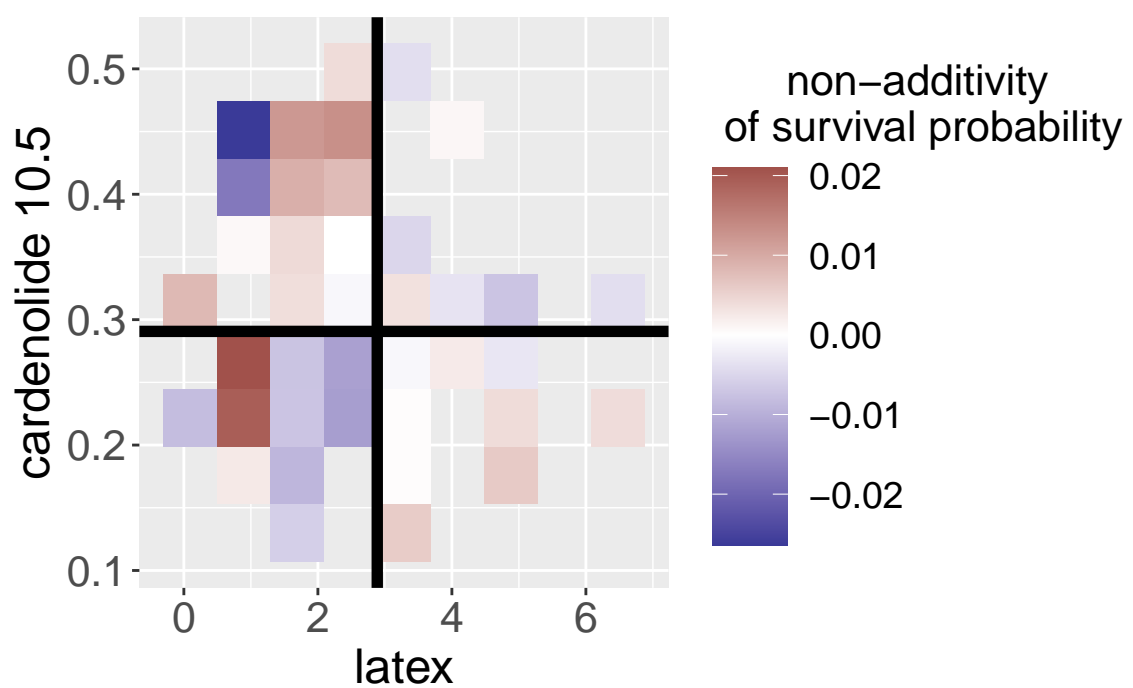
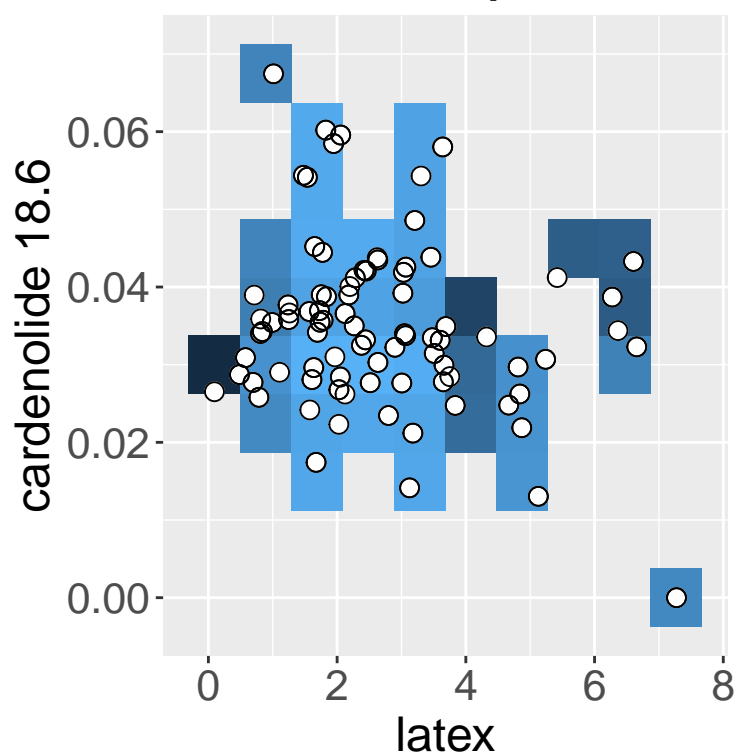


classification : synergy

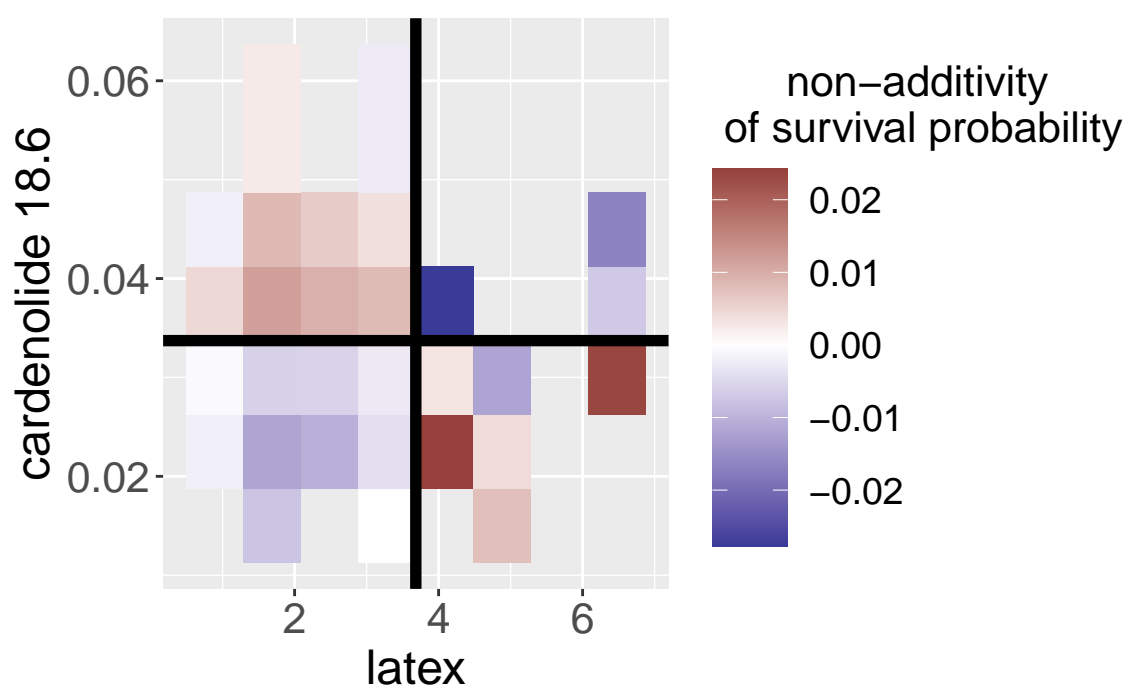
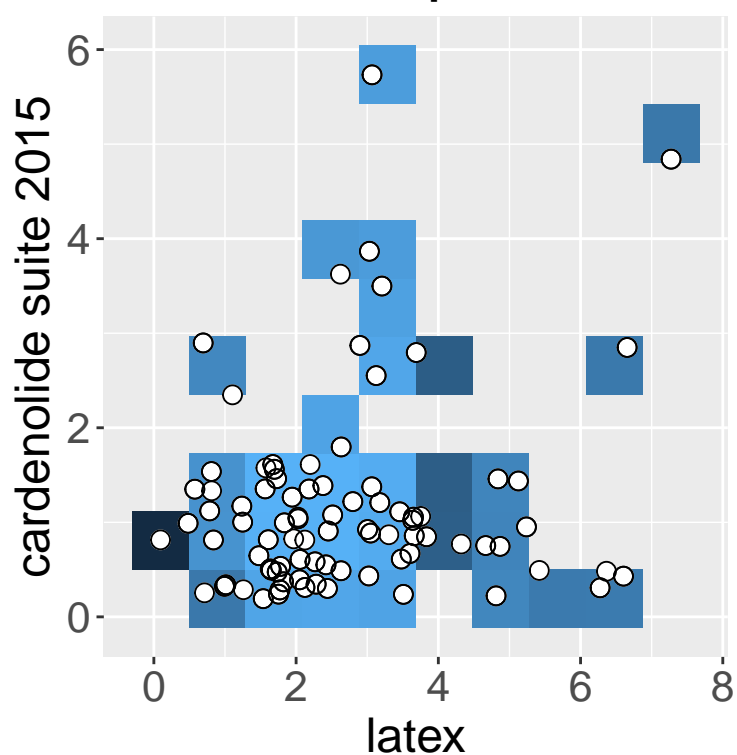
 $\theta = -0.556$, null 95%: -0.444 -- 0.444 

(an)**Monarch Survival****Random Forest predictions**

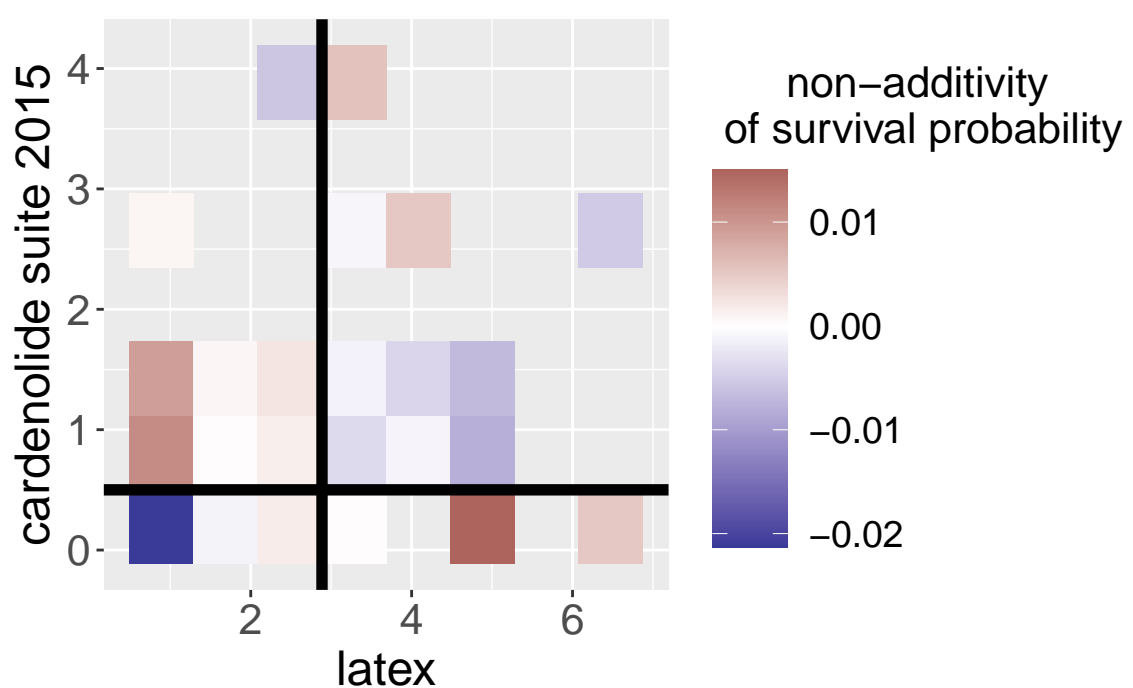
classification : unclear

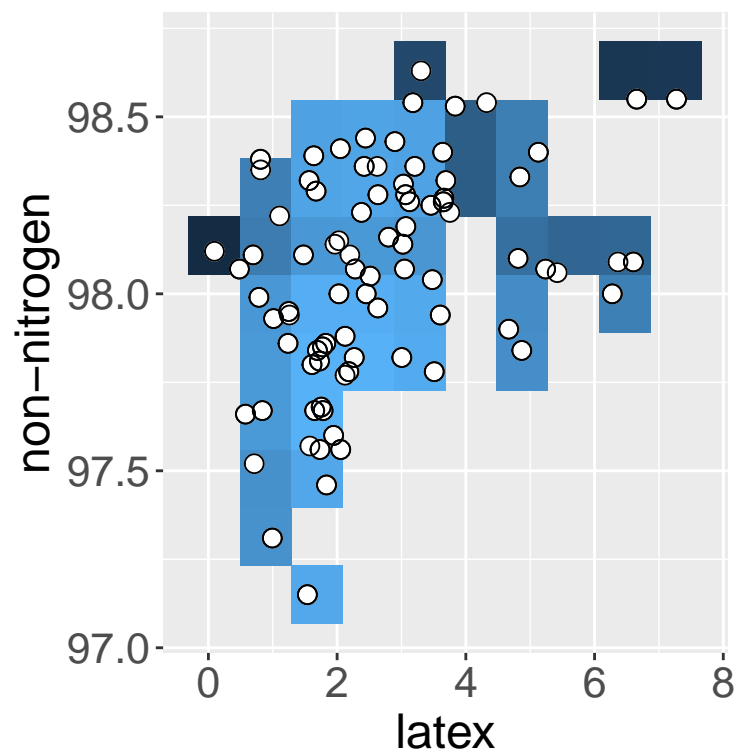
 $\theta = -0.436$, null 95%: -0.436 -- 0.436 **(ao)****Monarch Survival****Random Forest predictions**

classification : synergy

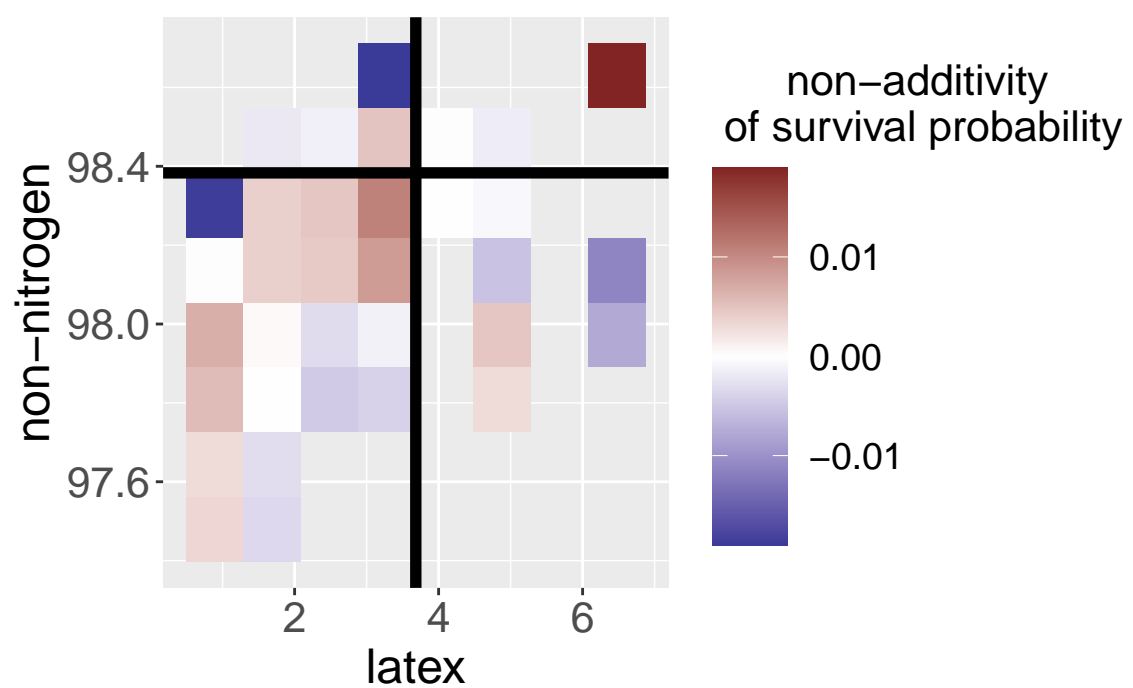
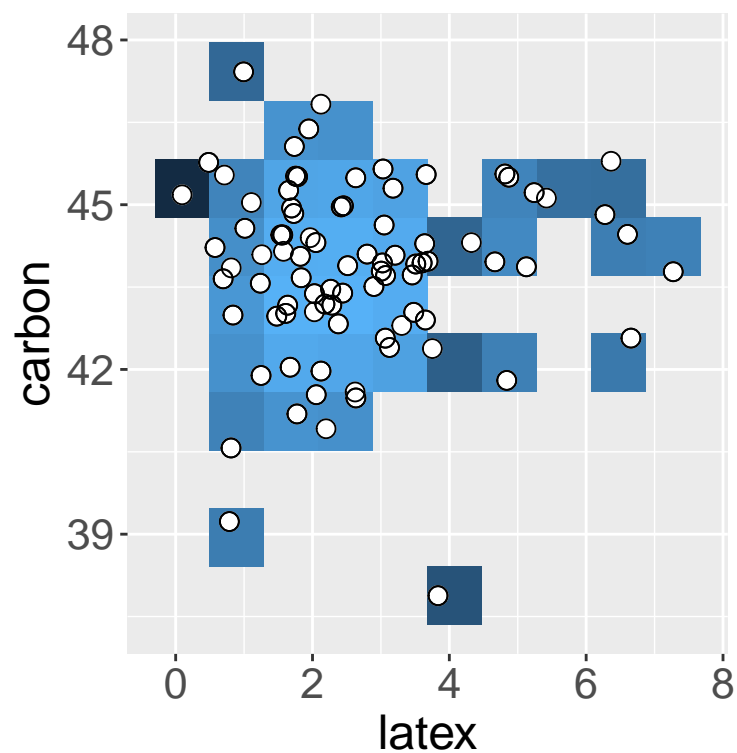
 $\theta = -0.742$, null 95%: -0.484 -- 0.484 **(ap)****Monarch Survival****Random Forest predictions**

classification : synergy

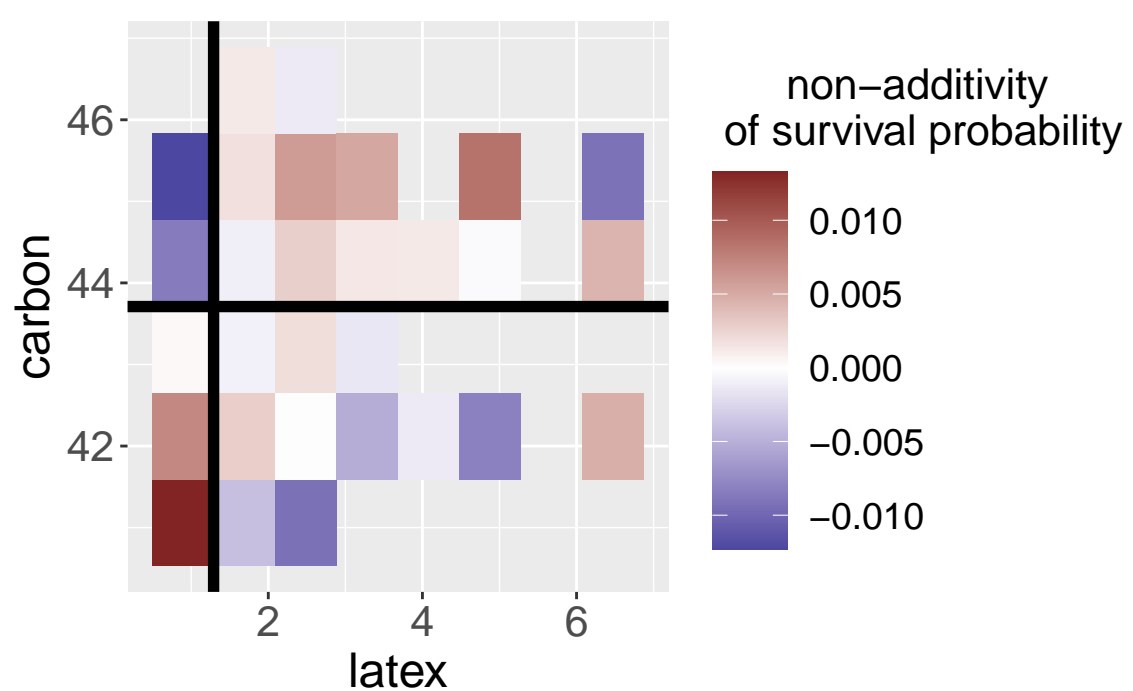
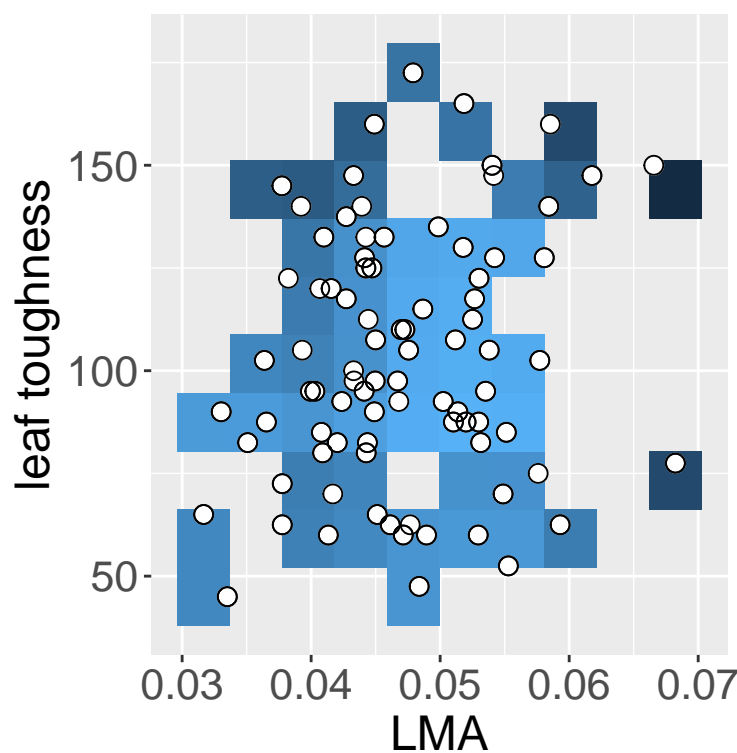
 $\theta = -0.667$, null 95%: -0.583 -- 0.583 

(aq)**Random Forest predictions****Monarch Survival**

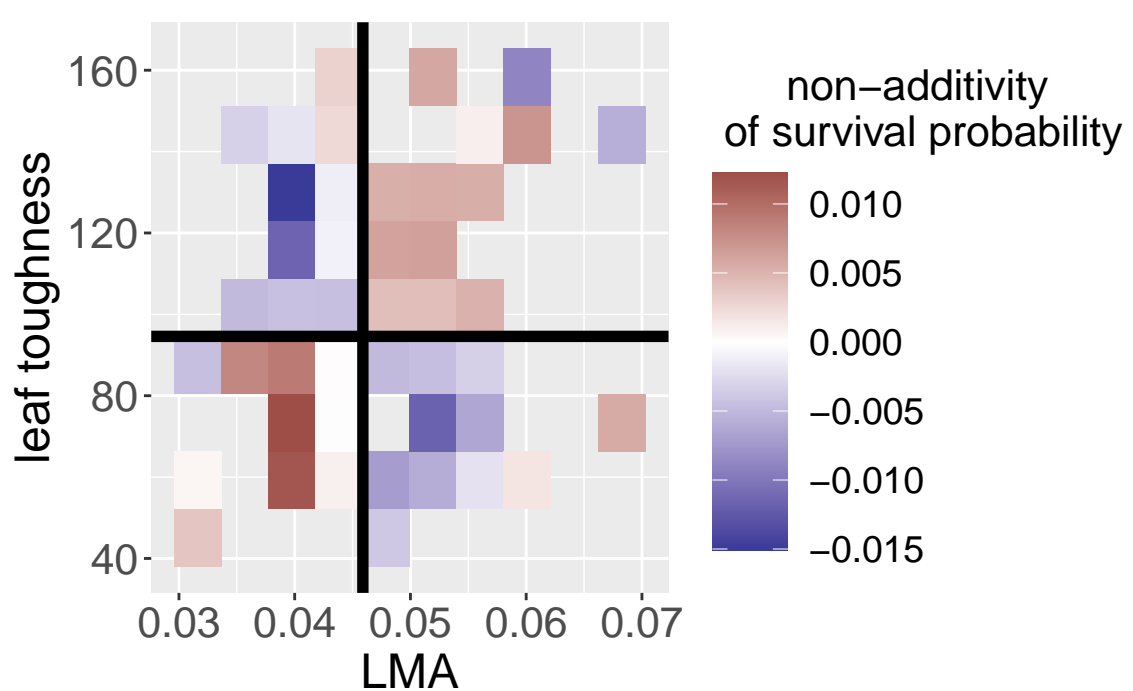
classification : unclear

 $\theta = 0.294$, null 95%: -0.412 -- 0.471 **(ar)****Random Forest predictions****Monarch Survival**

classification : unclear

 $\theta = 0.517$, null 95%: -0.517 -- 0.517 **(as)****Random Forest predictions****Monarch Survival**

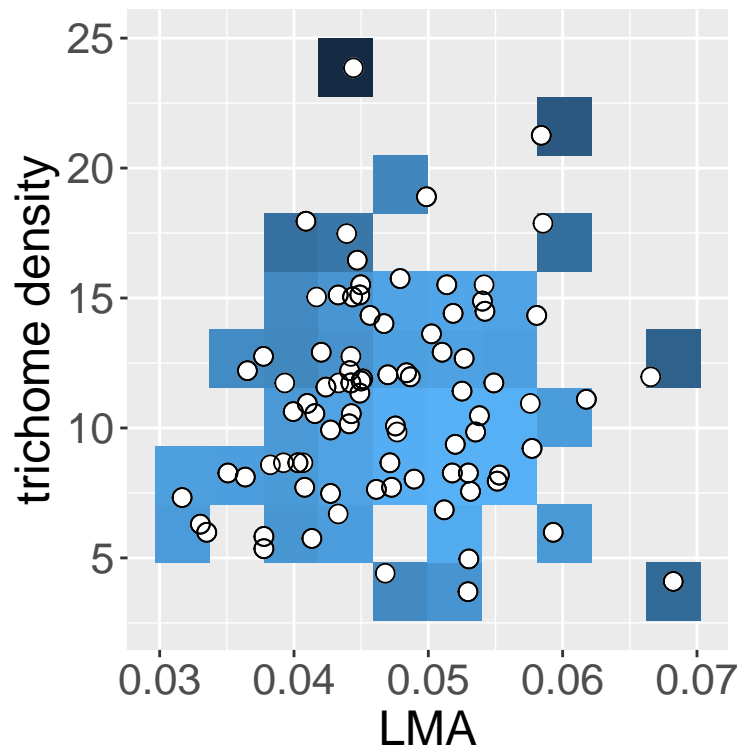
classification : antagonism

 $\theta = 0.689$, null 95%: -0.422 -- 0.422 

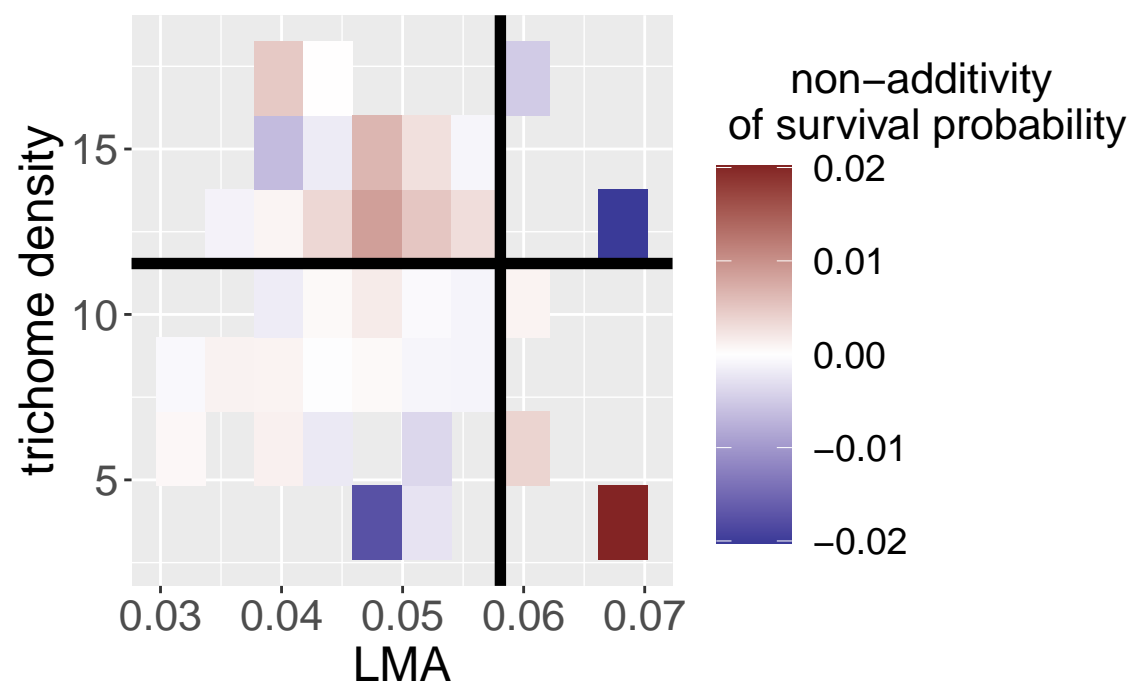
(at)

Monarch Survival

Random Forest predictions

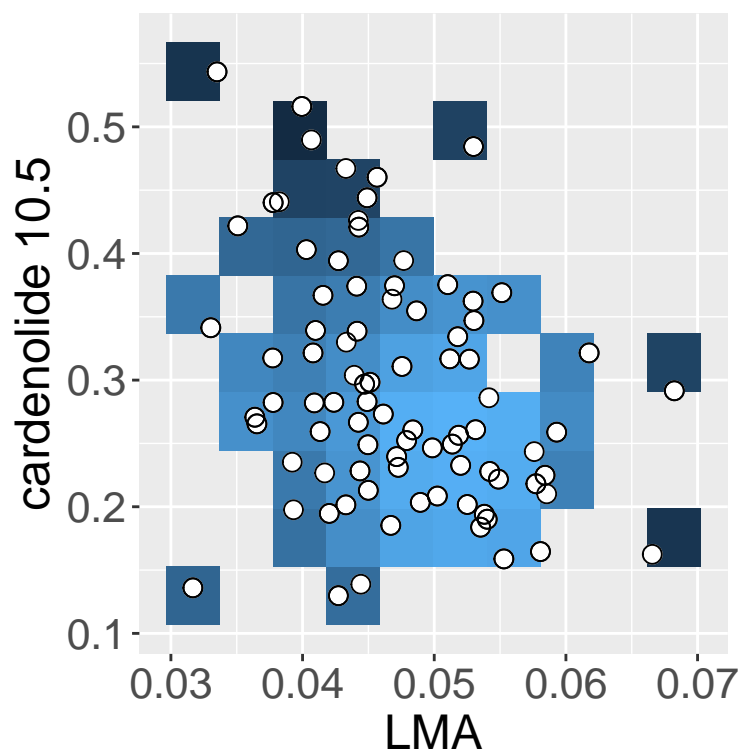


classification : unclear

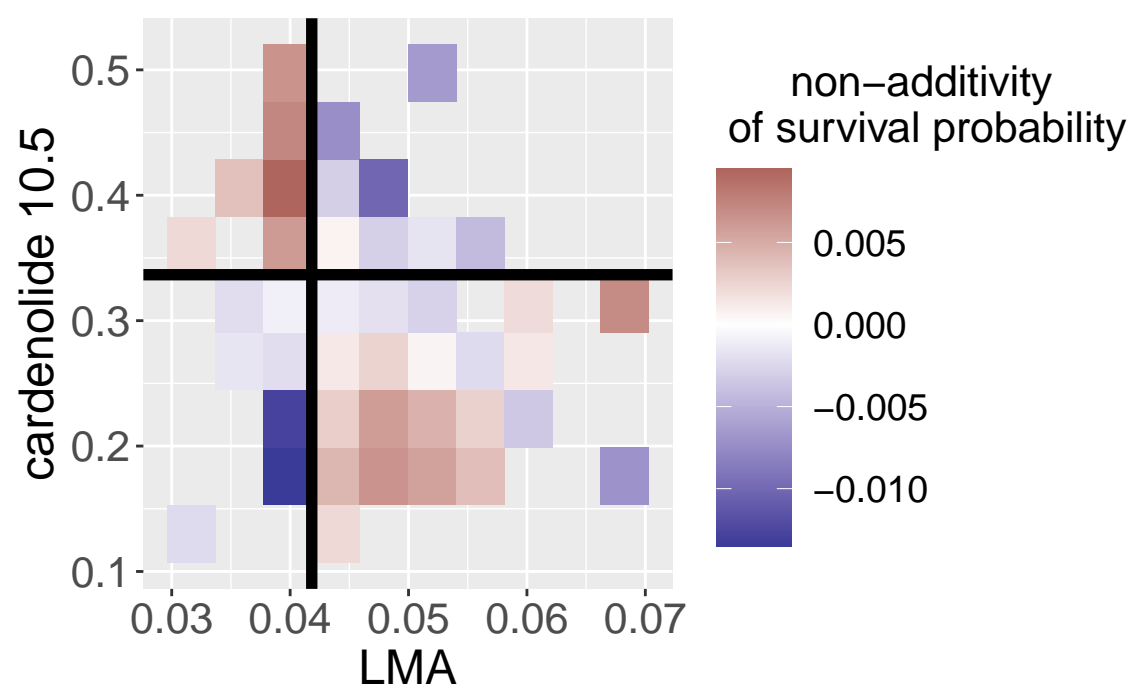
 $\theta = -0.389$, null 95%: -0.447 -- 0.444 **(au)**

Monarch Survival

Random Forest predictions

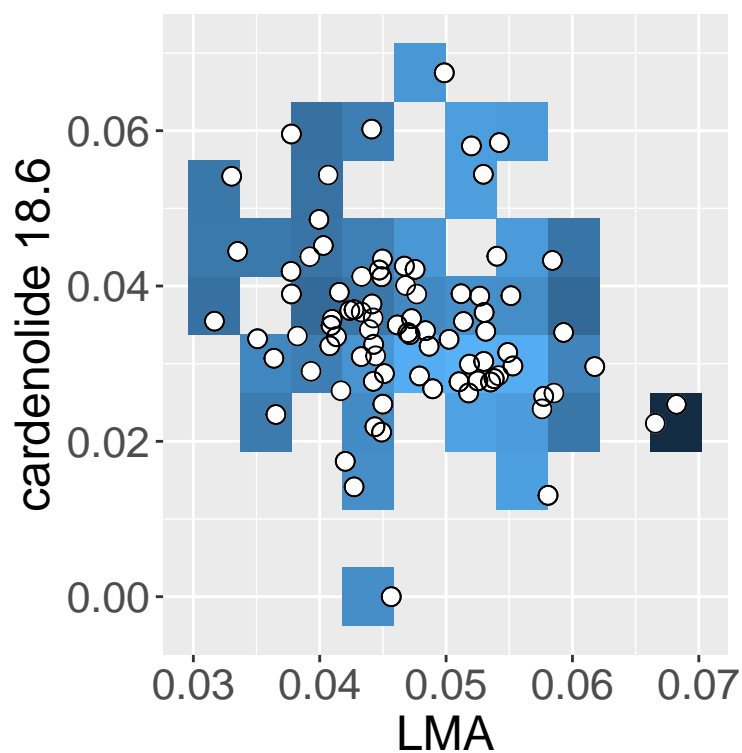


classification : synergy

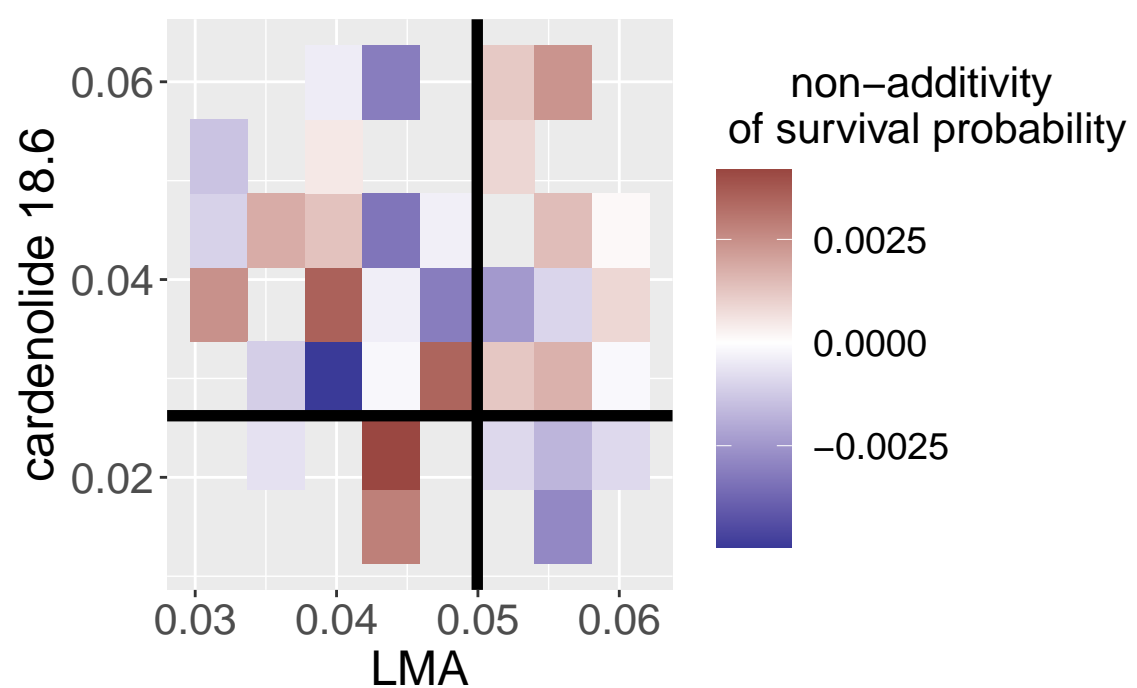
 $\theta = -0.667$, null 95%: -0.429 -- 0.429 **(av)**

Monarch Survival

Random Forest predictions

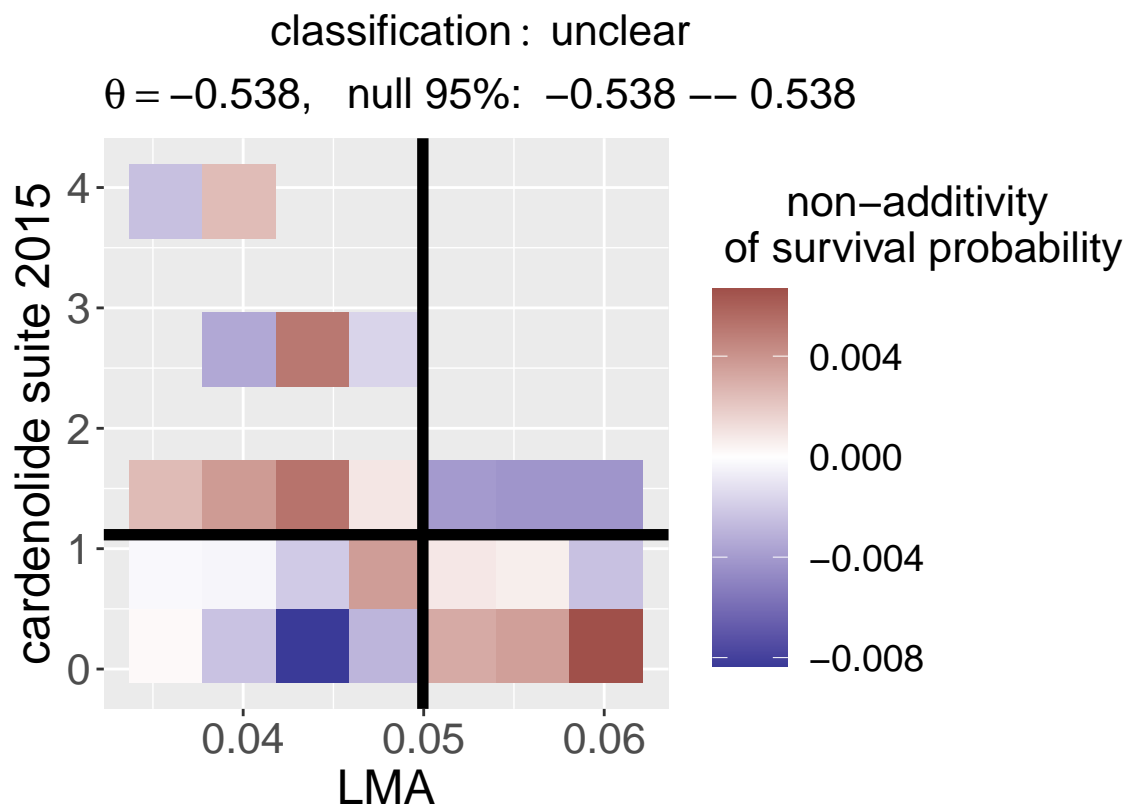
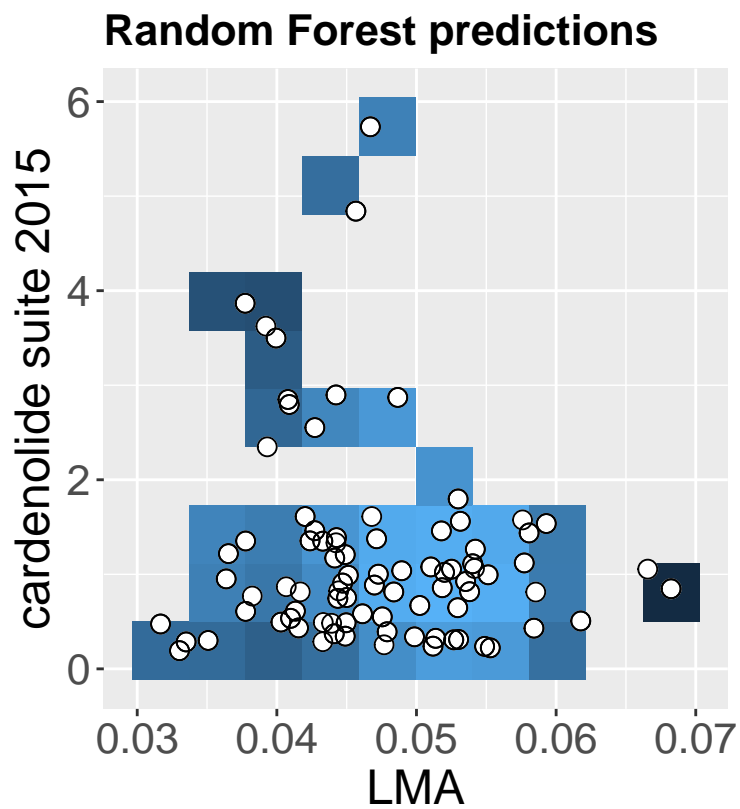


classification : unclear

 $\theta = 0.429$, null 95%: -0.486 -- 0.486 

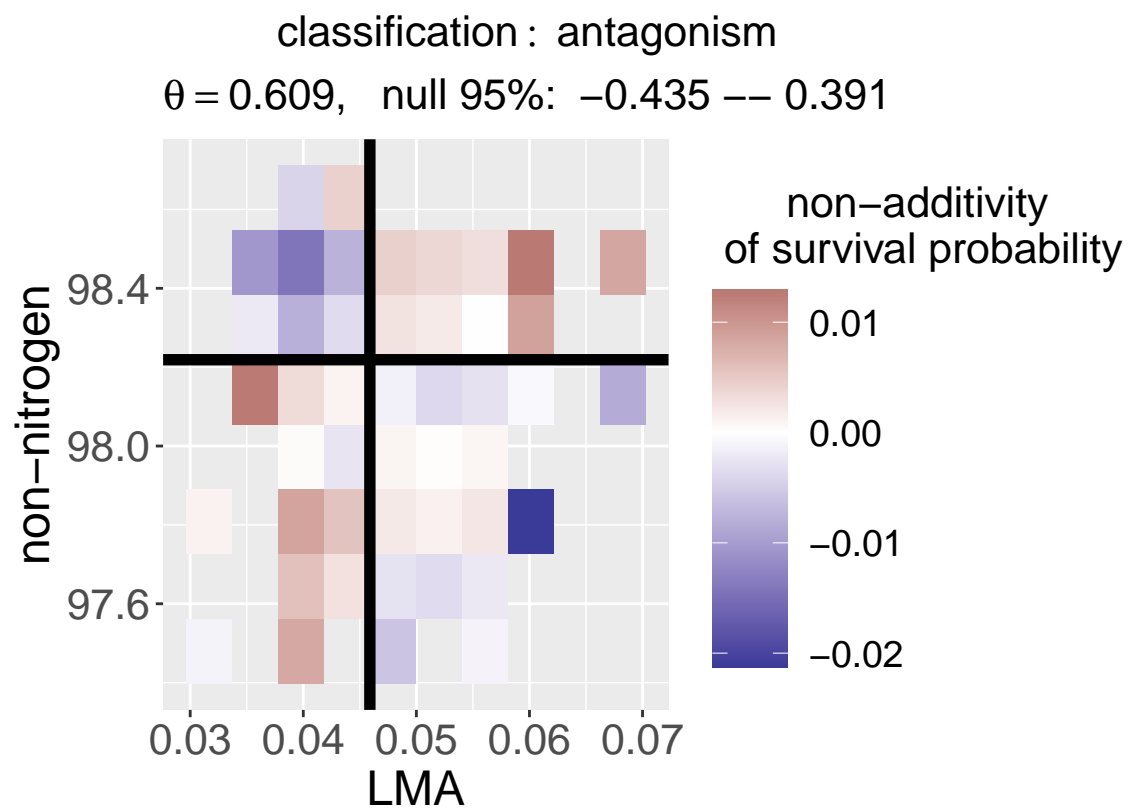
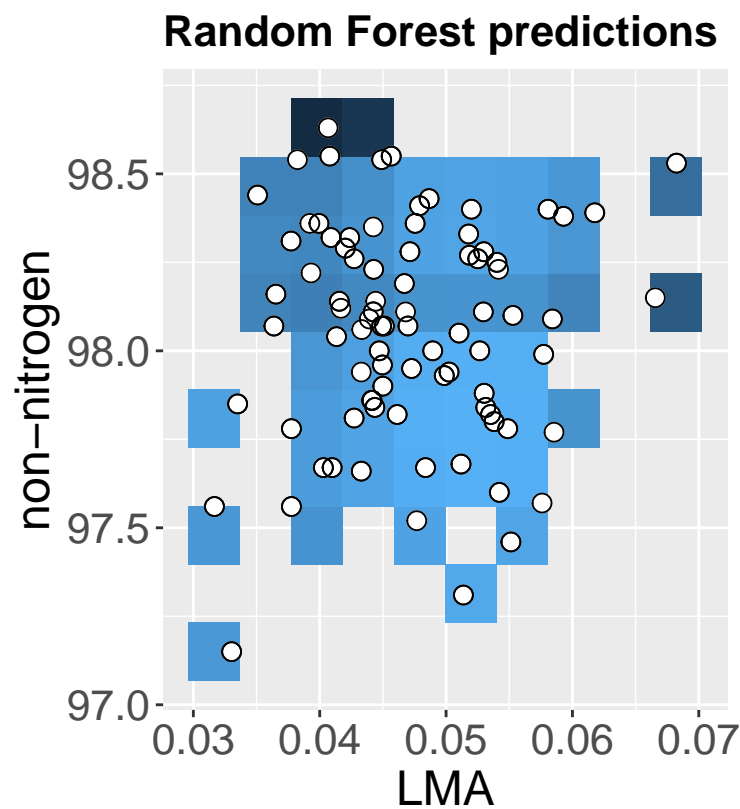
(aw)

Monarch Survival



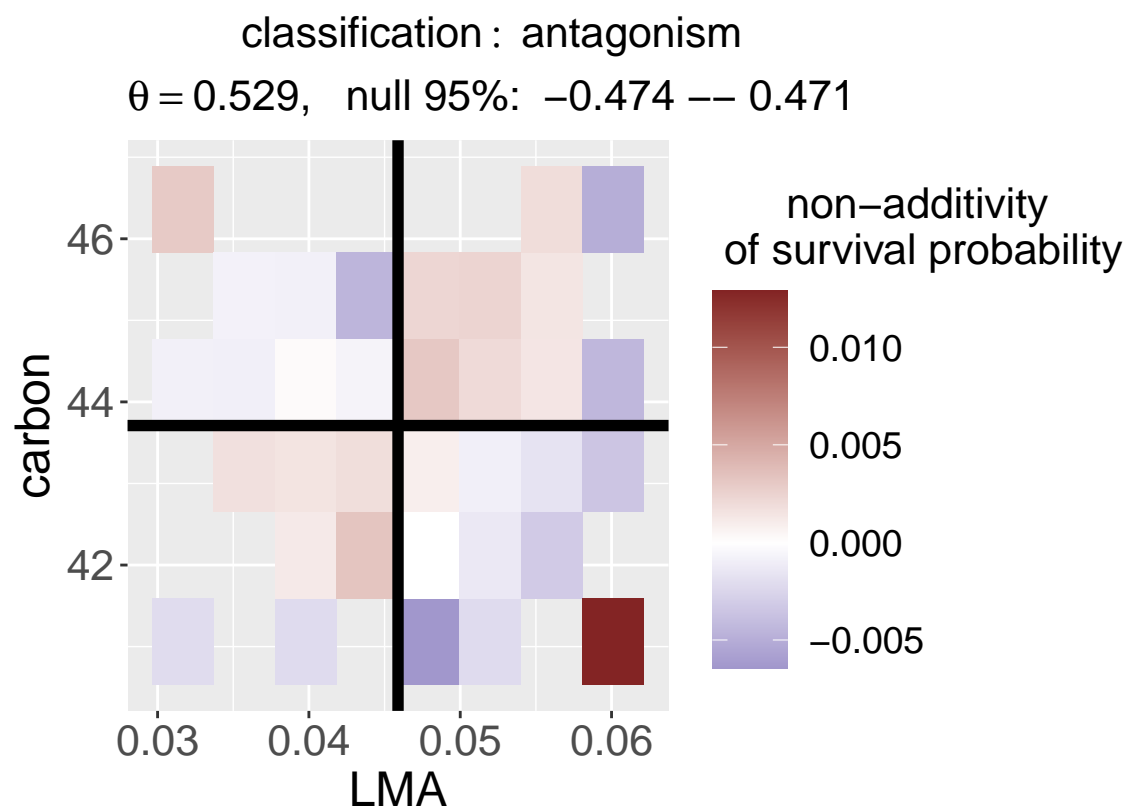
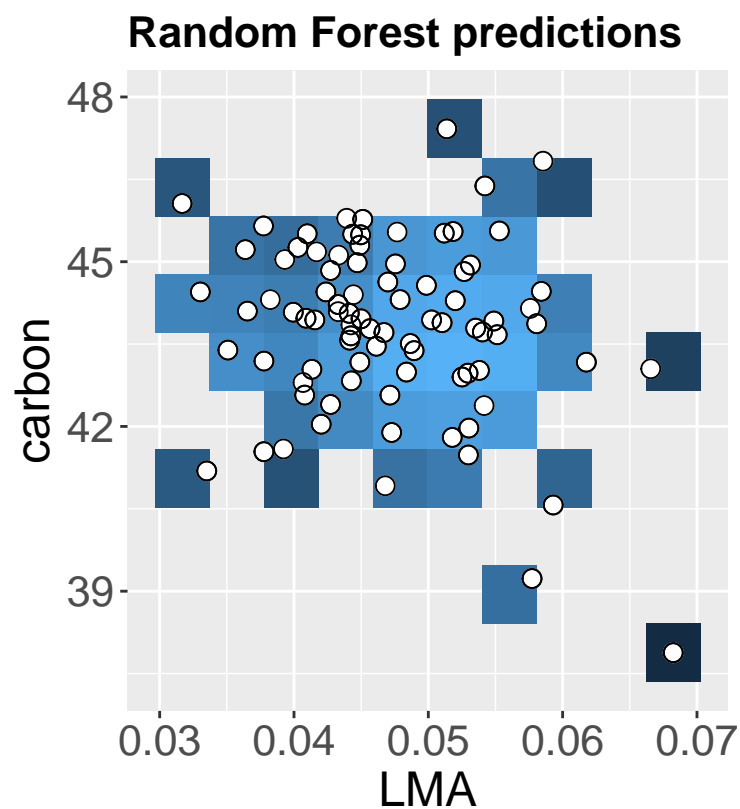
(ax)

Monarch Survival



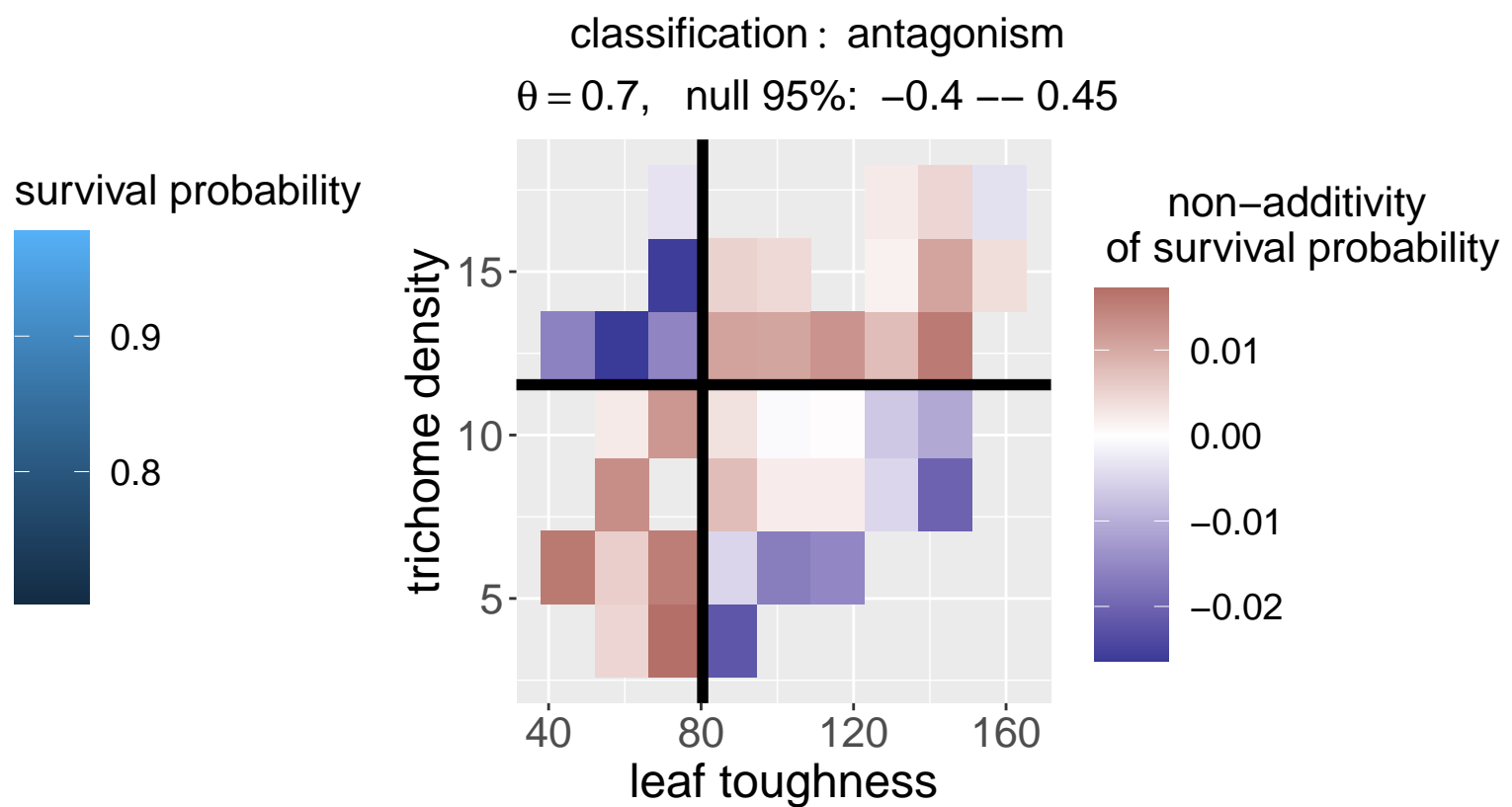
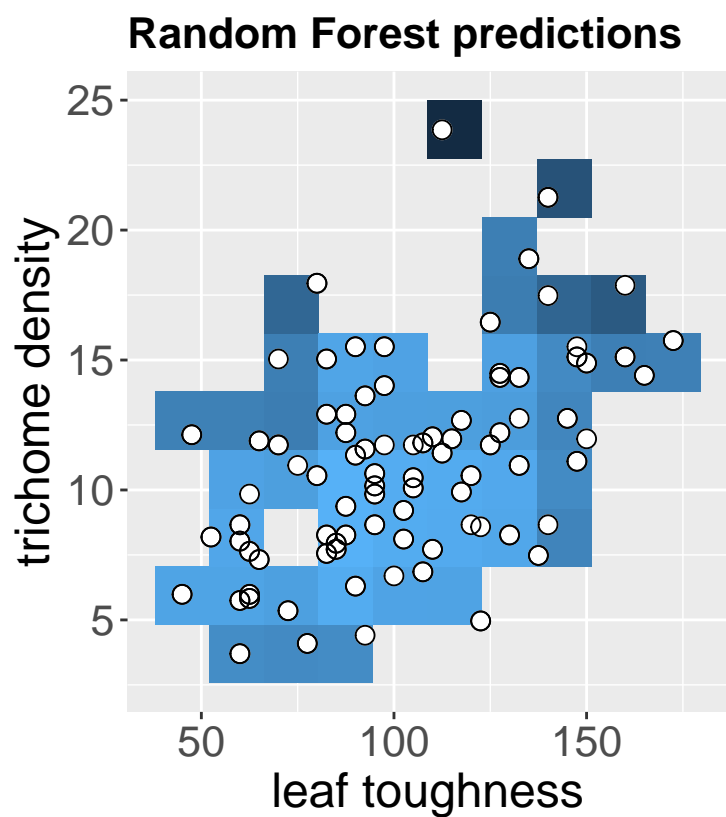
(ay)

Monarch Survival

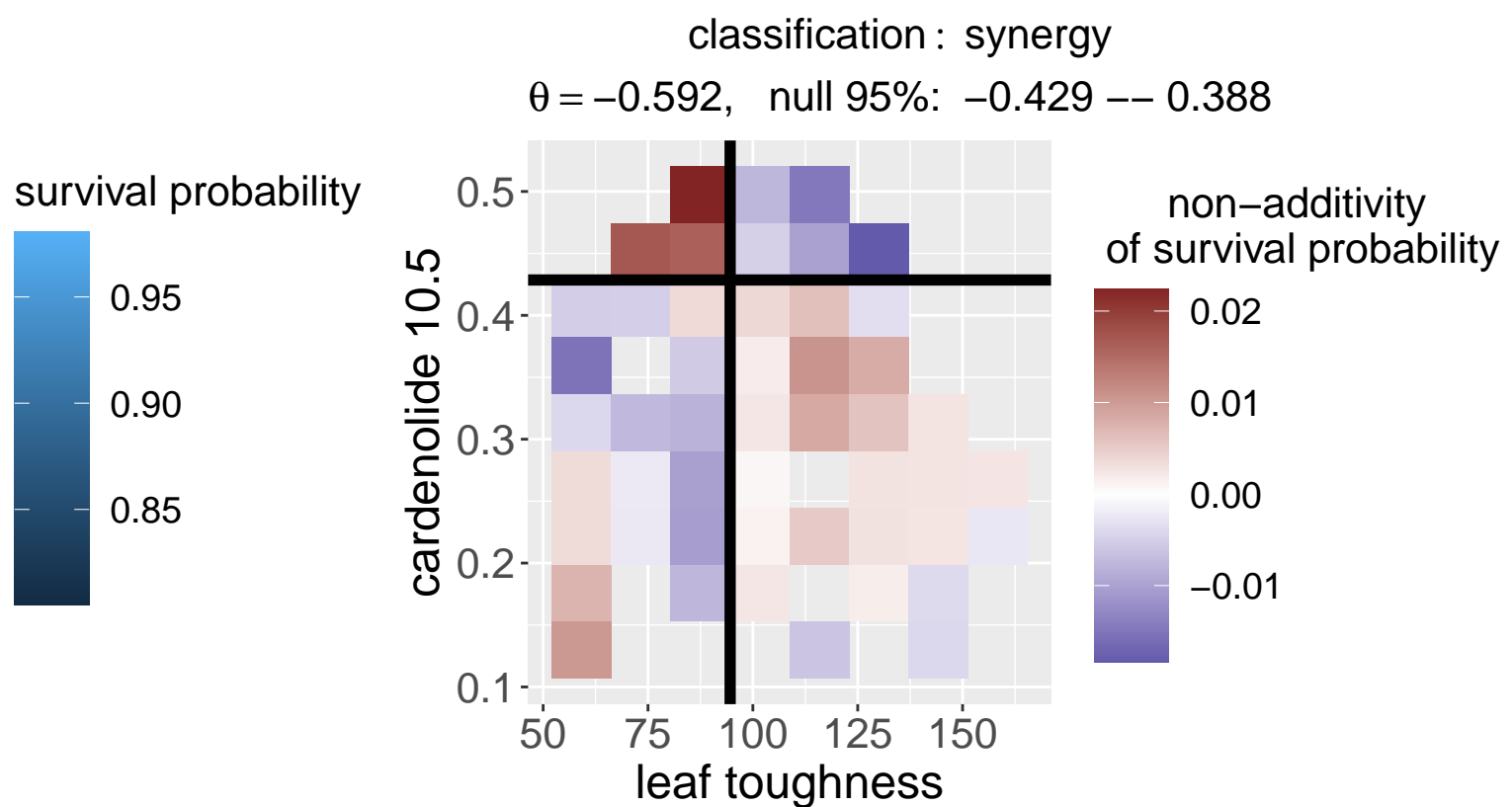
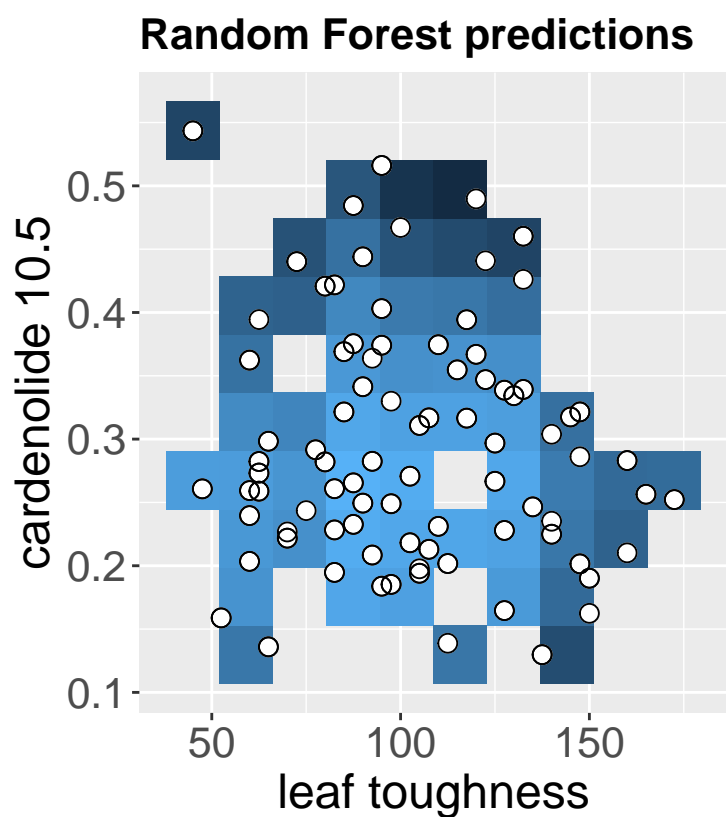


(az)

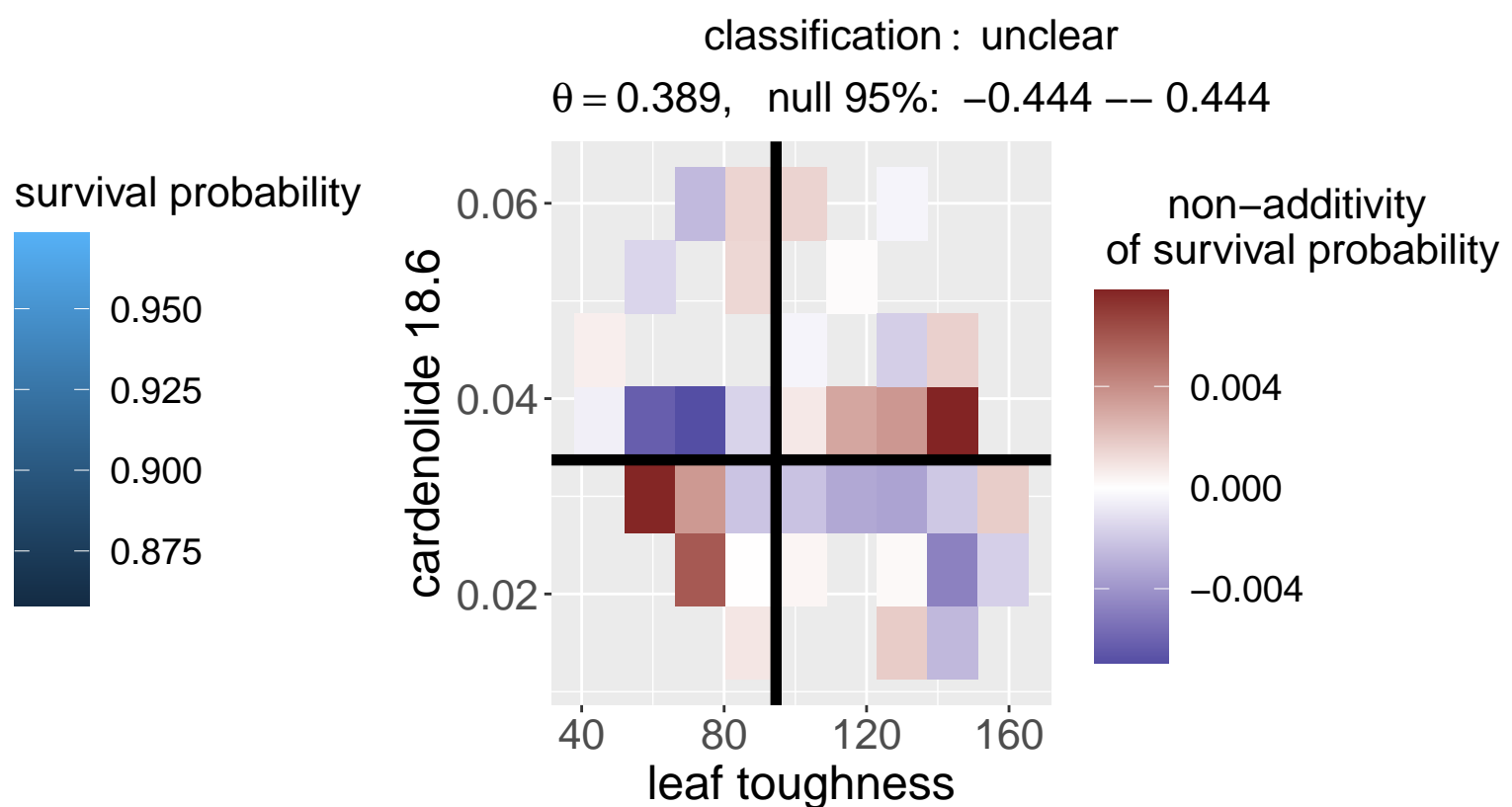
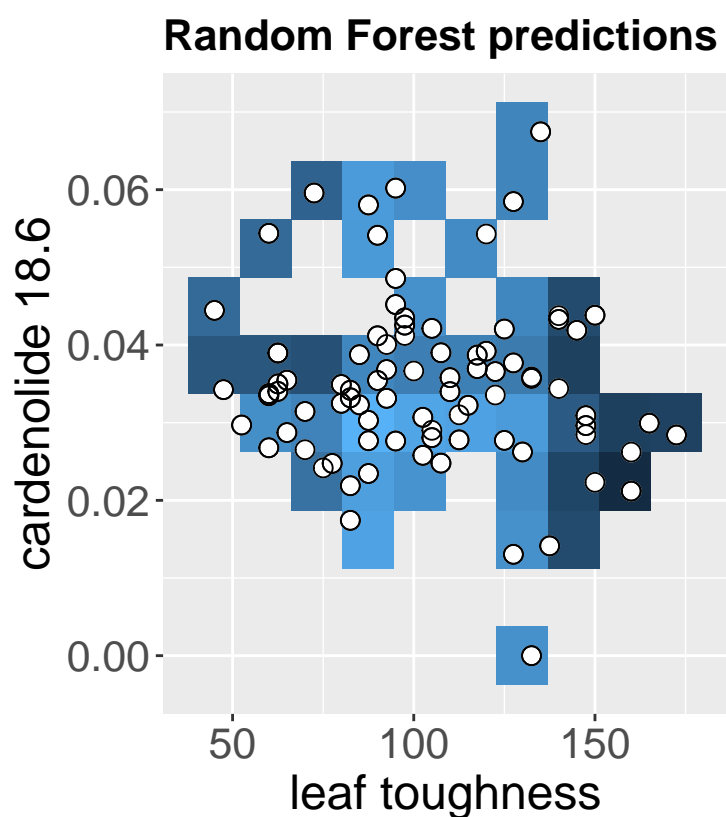
Monarch Survival

**(ba)**

Monarch Survival

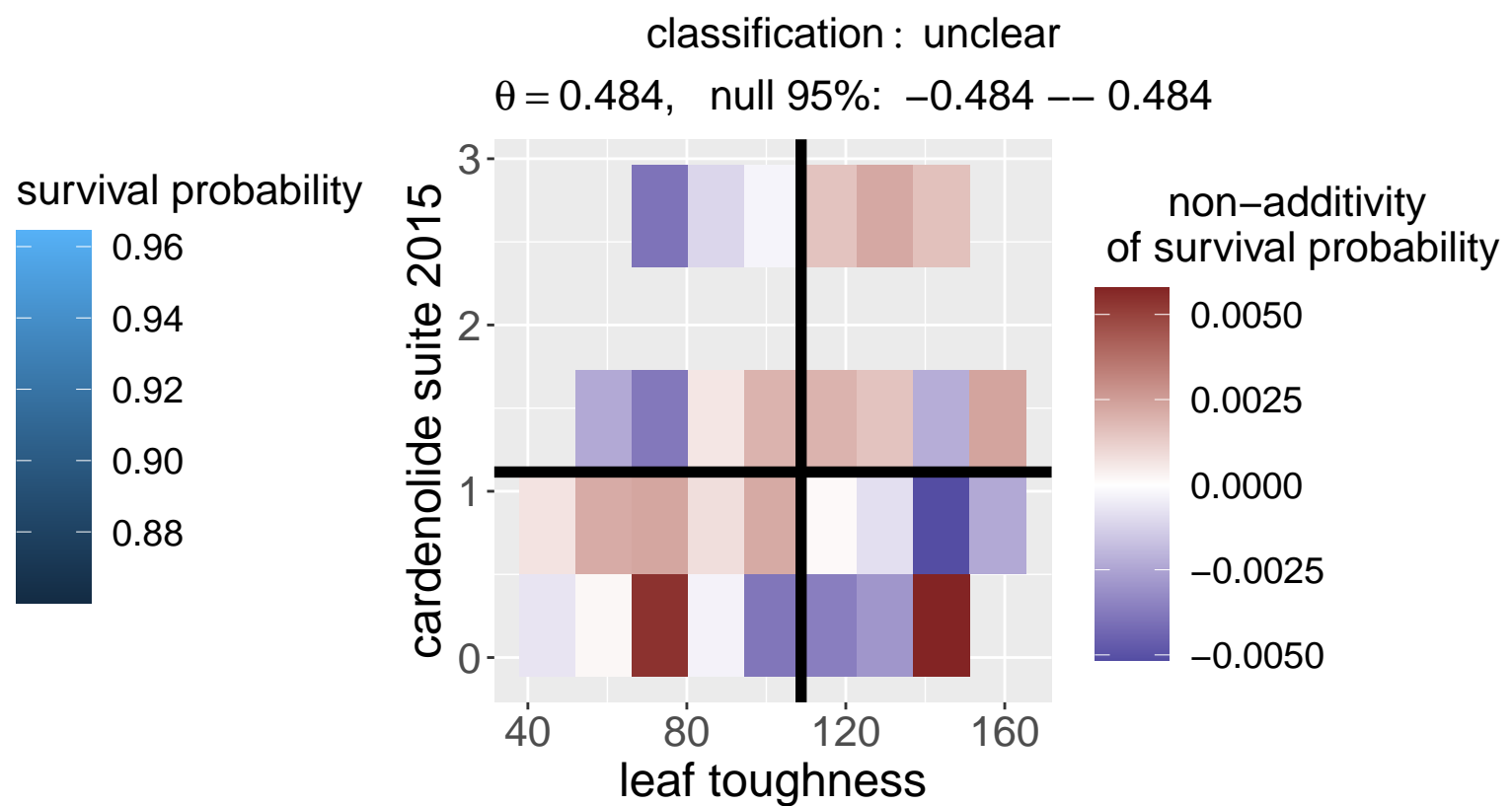
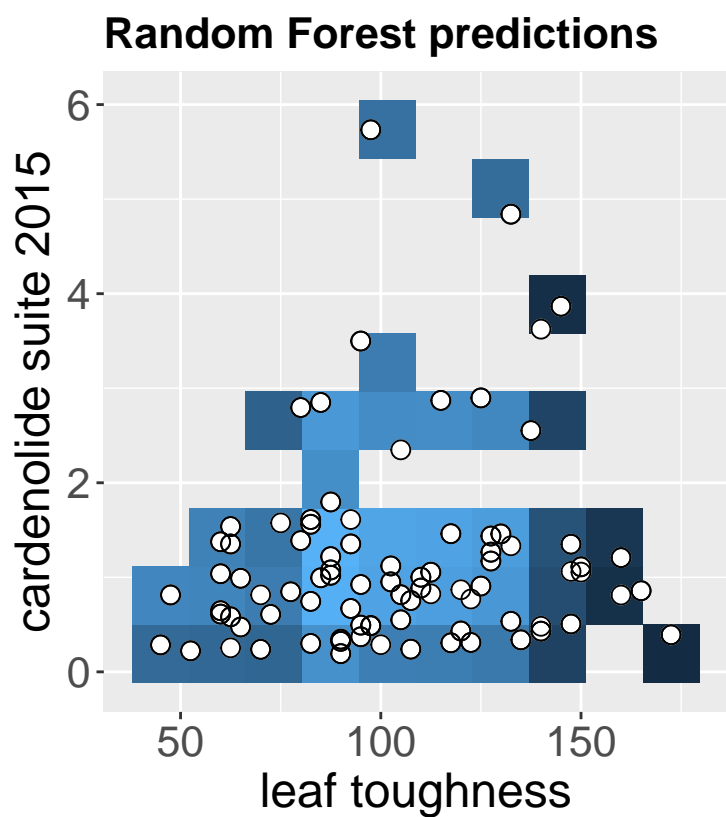
**(bb)**

Monarch Survival

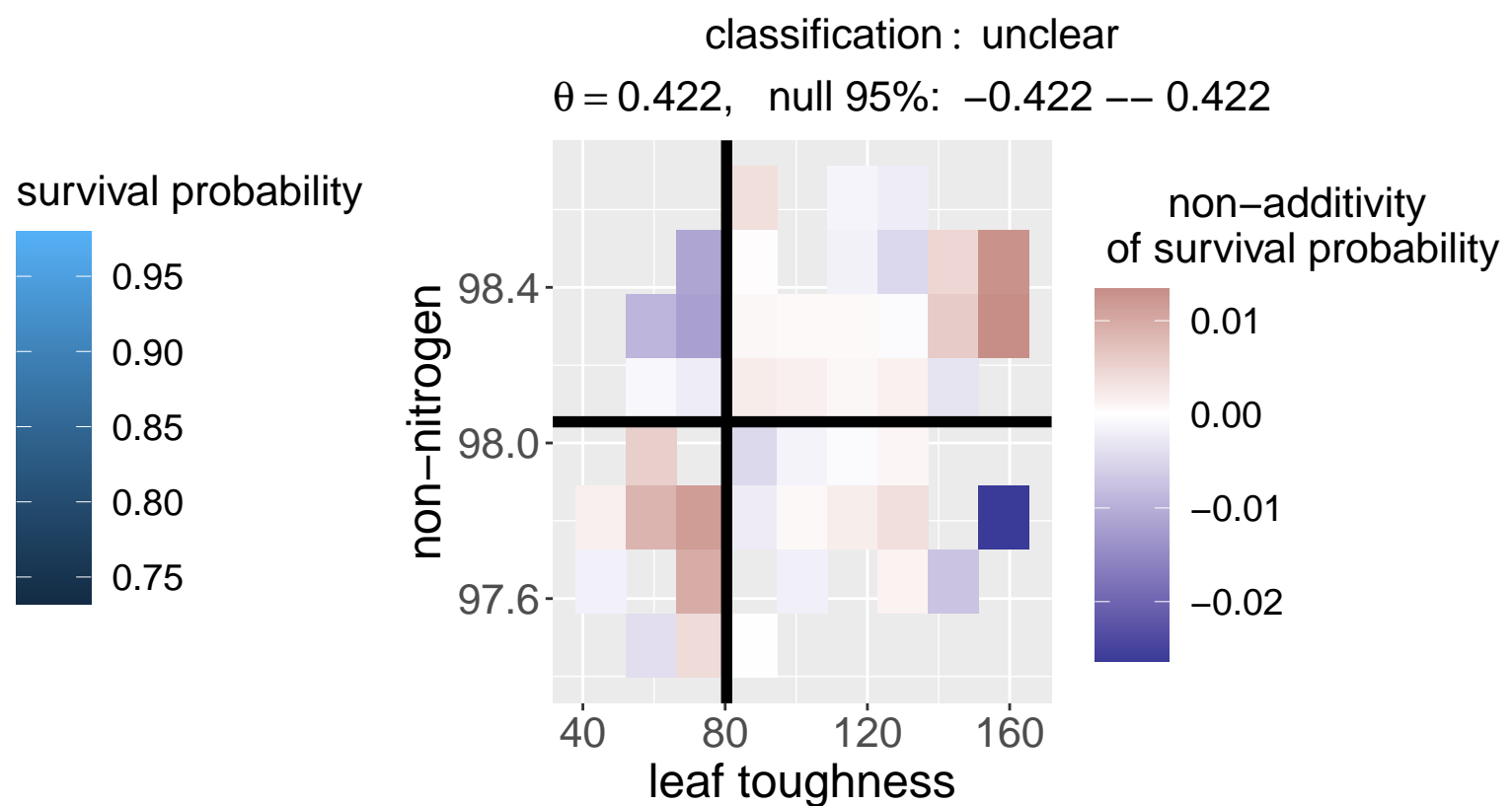
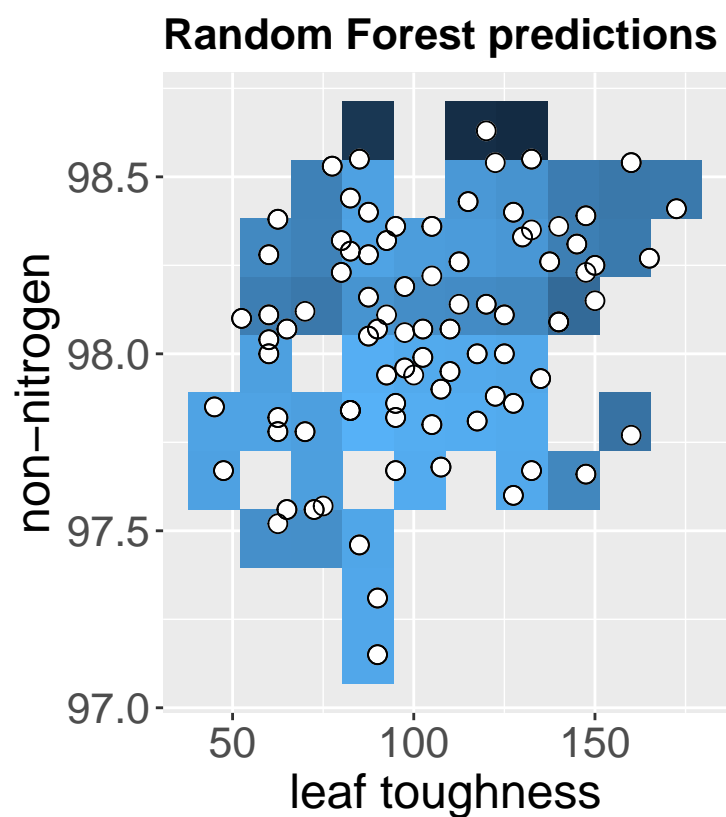


(bc)

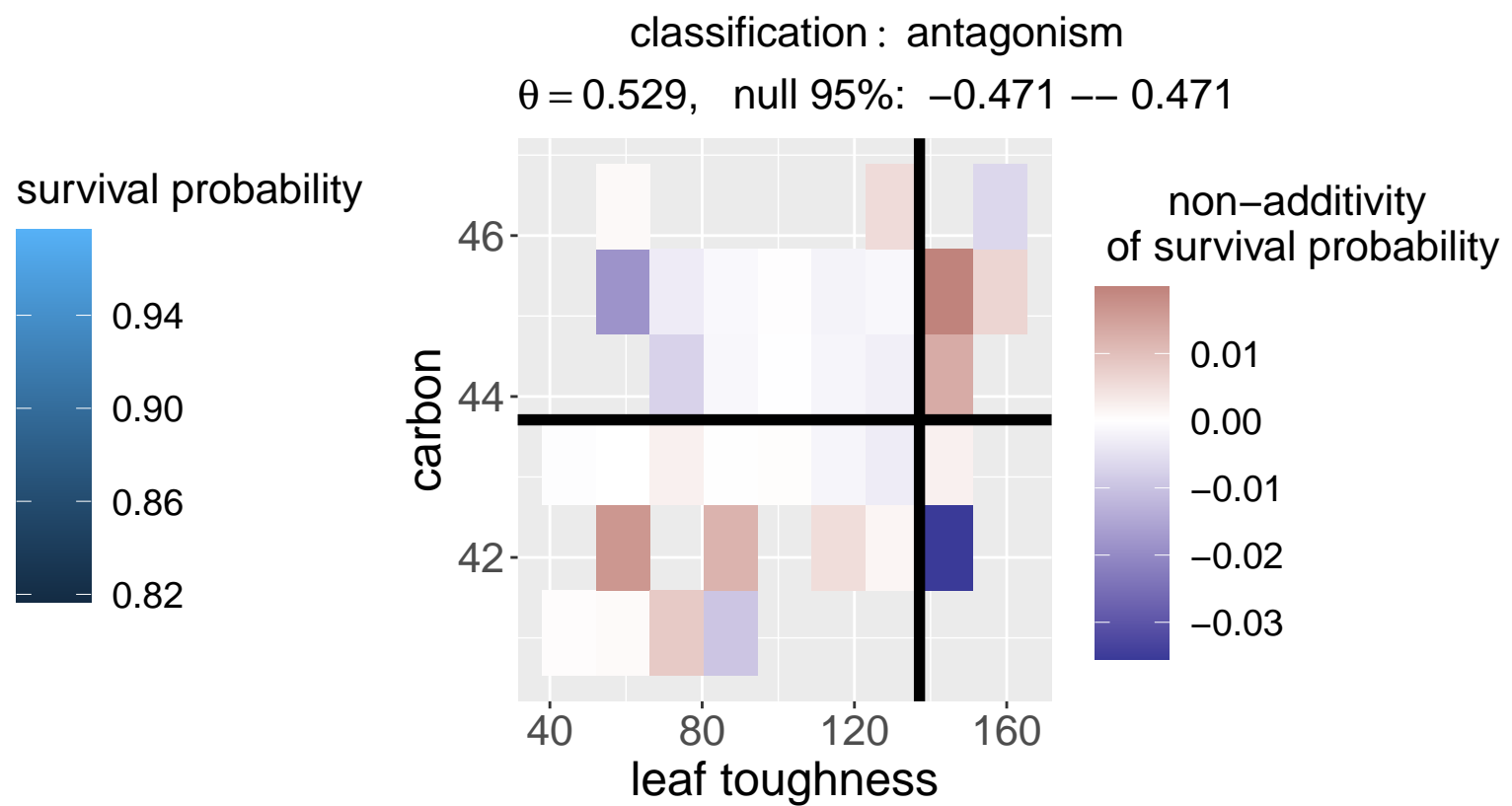
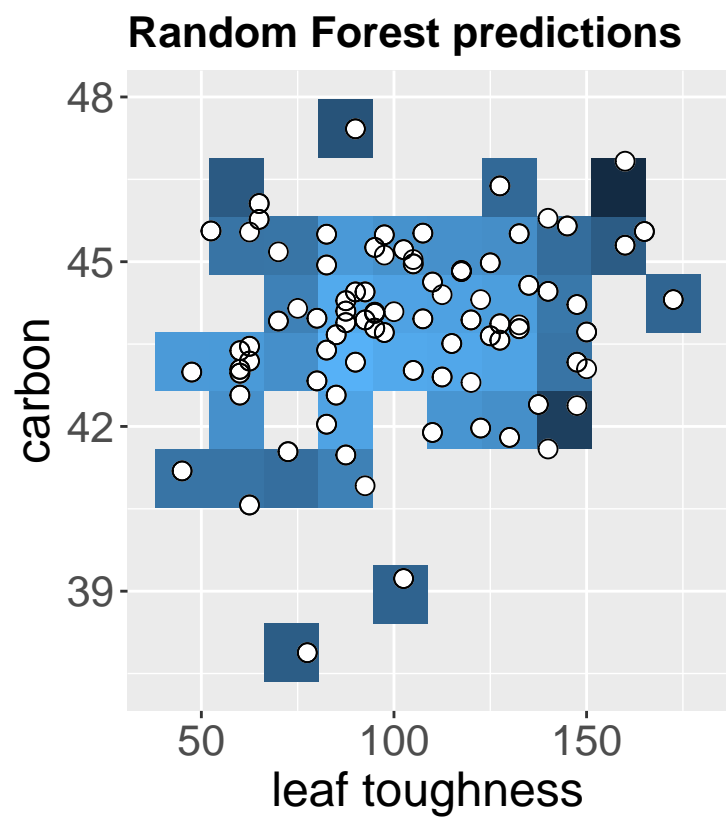
Monarch Survival

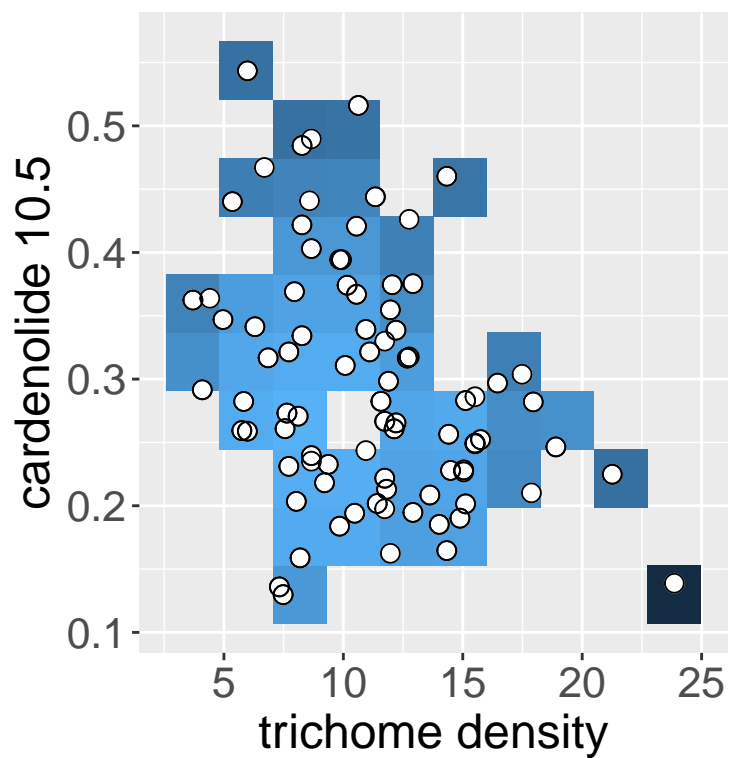
**(bd)**

Monarch Survival

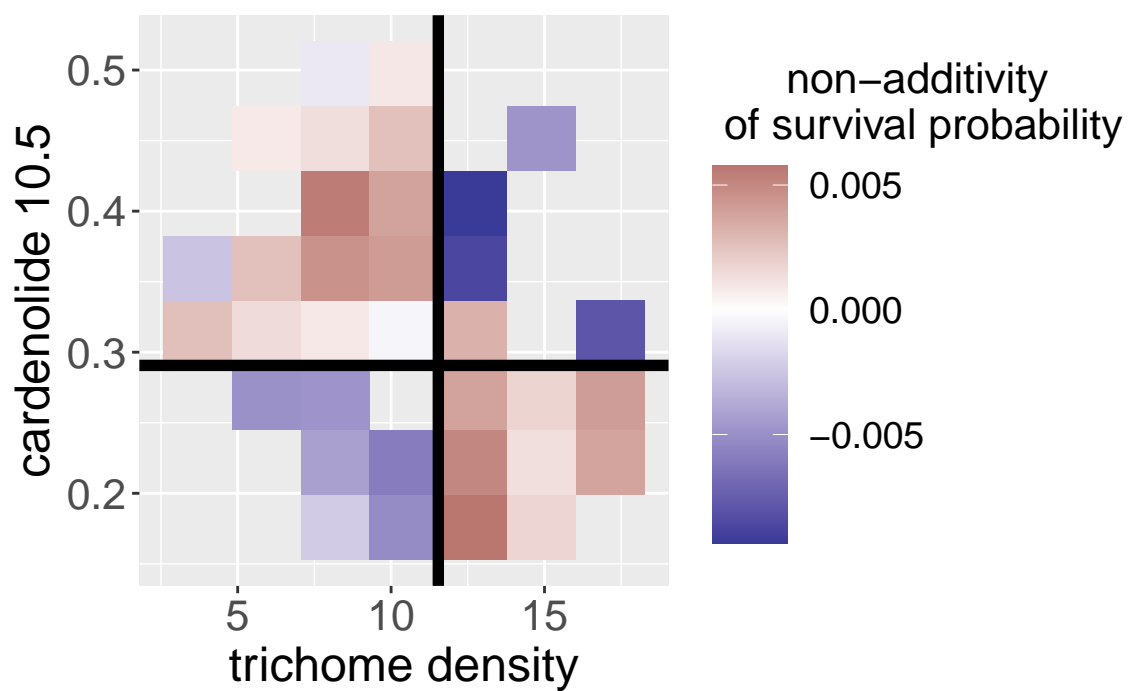
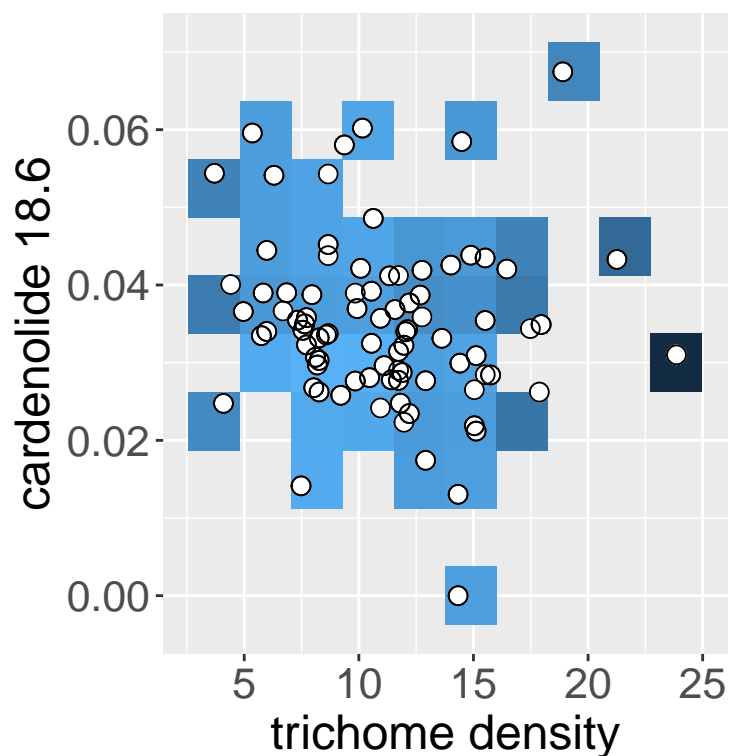
**(be)**

Monarch Survival

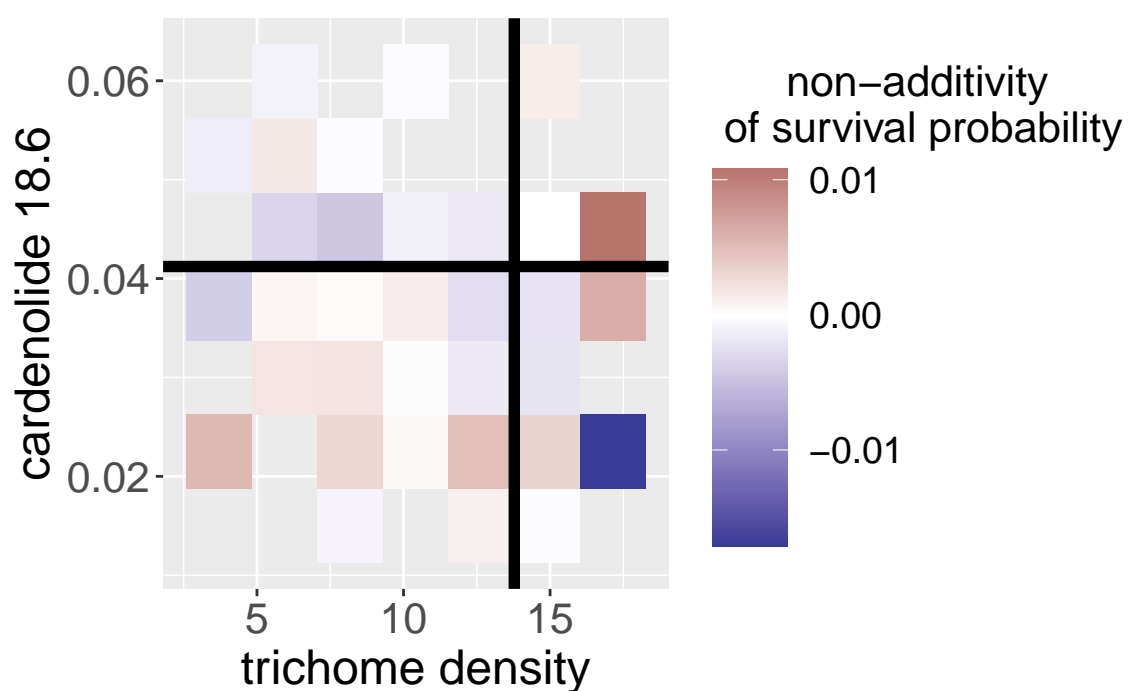
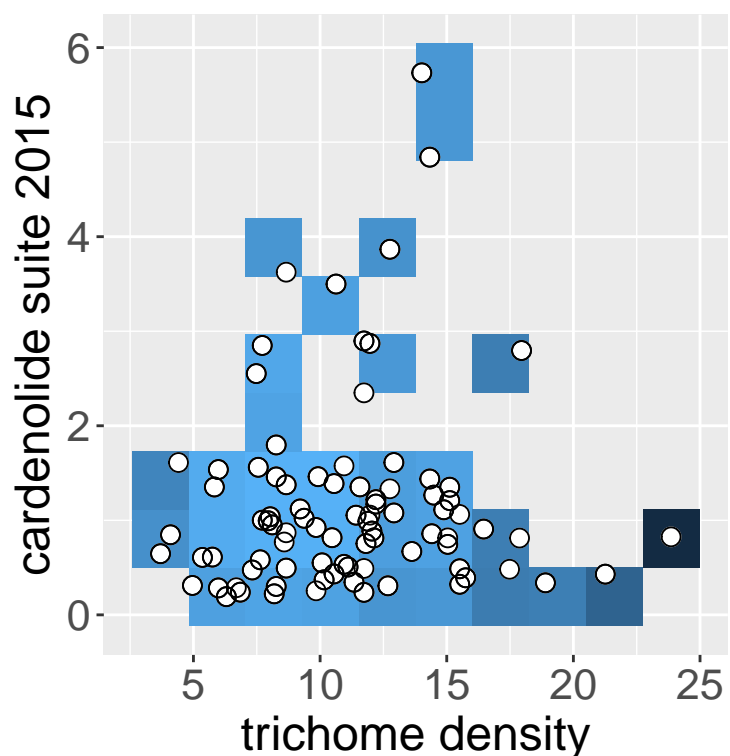


(bf)**Random Forest predictions****Monarch Survival**

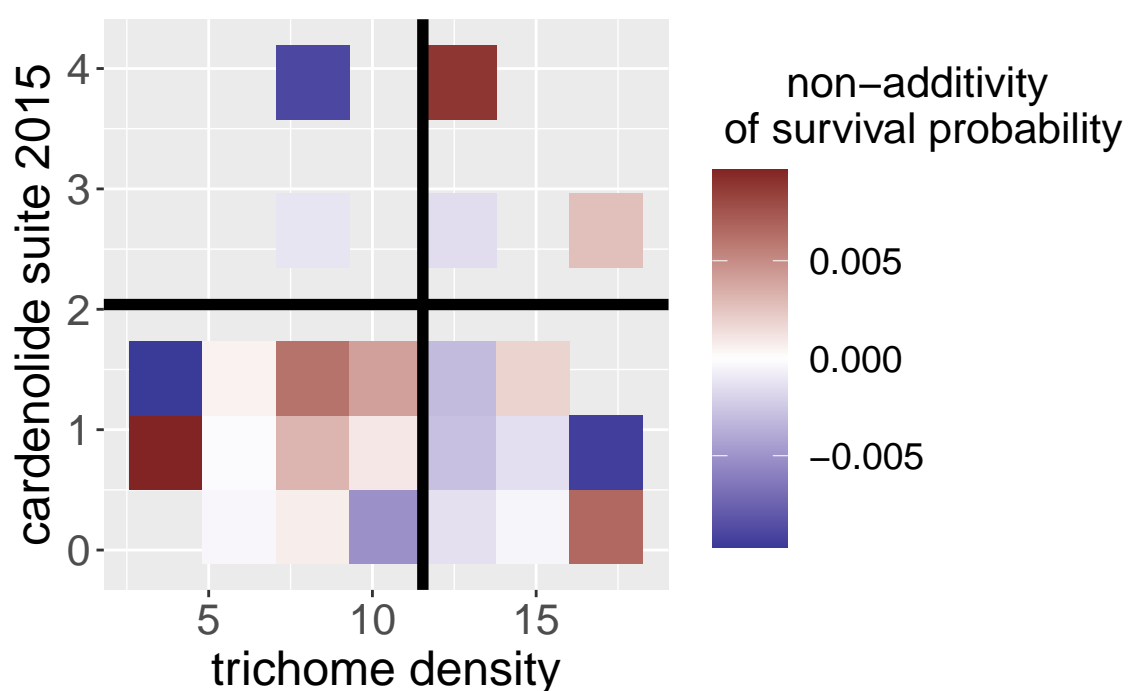
classification : synergy

 $\theta = -0.765$, null 95%: -0.529 -- 0.471 **(bg)****Random Forest predictions****Monarch Survival**

classification : unclear

 $\theta = 0.455$, null 95%: -0.515 -- 0.455 **(bh)****Random Forest predictions****Monarch Survival**

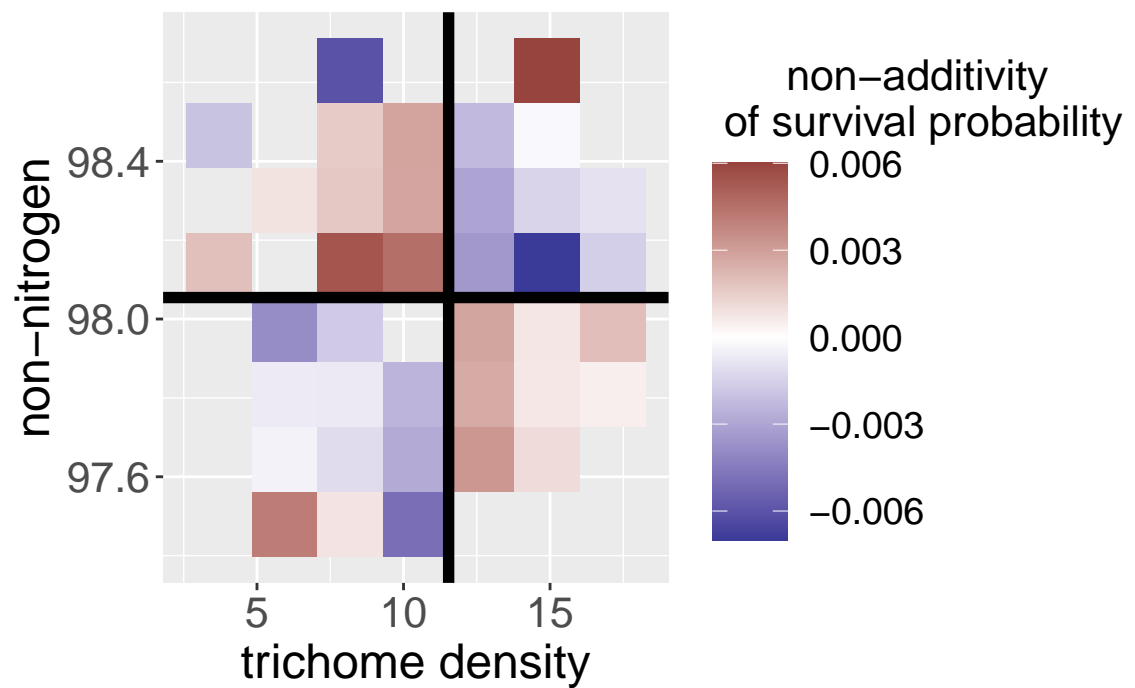
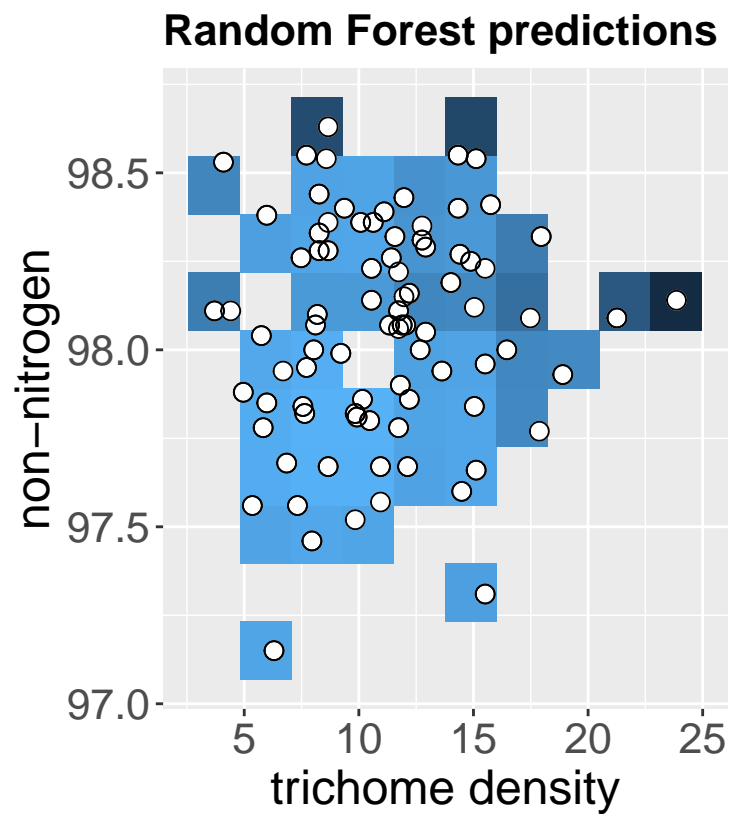
classification : unclear

 $\theta = 0.417$, null 95%: -0.583 -- 0.583 

(bi)

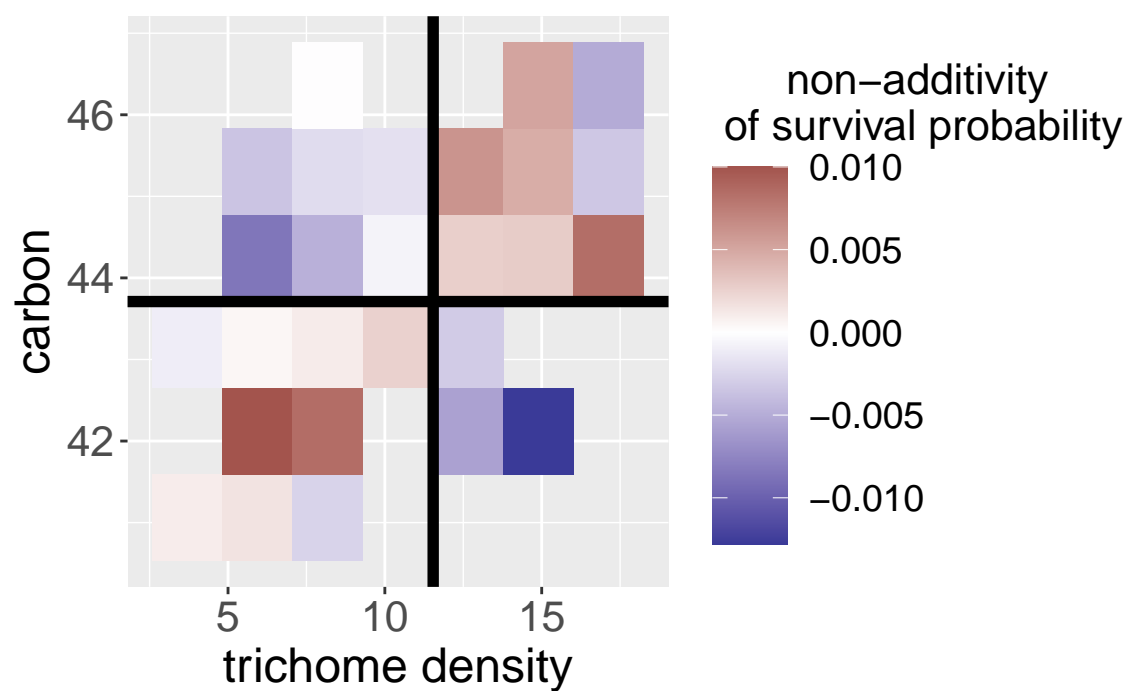
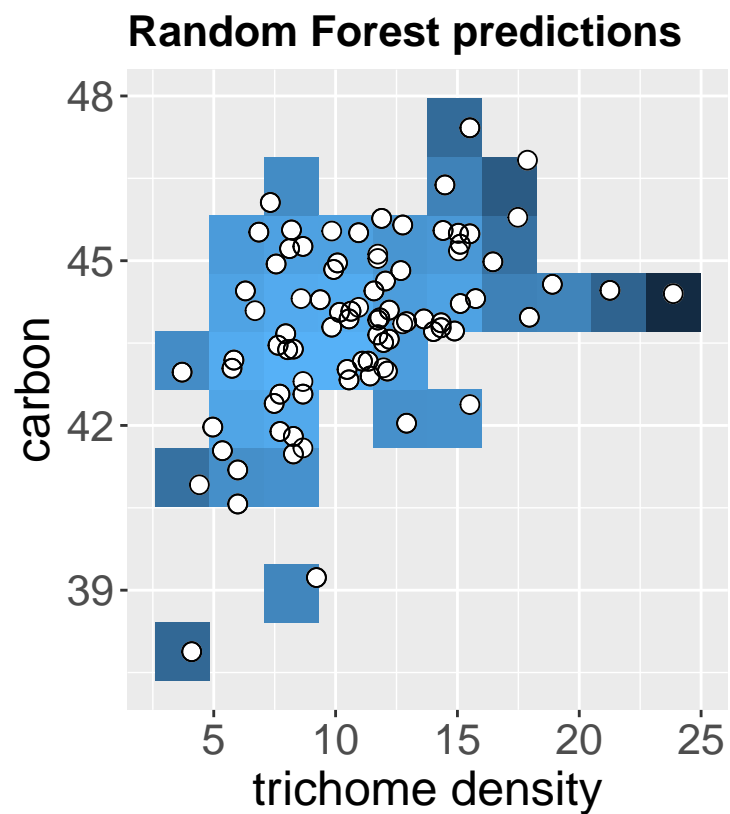
Monarch Survival

classification : synergy

 $\theta = -0.737$, null 95%: -0.421 -- 0.474 **(bj)**

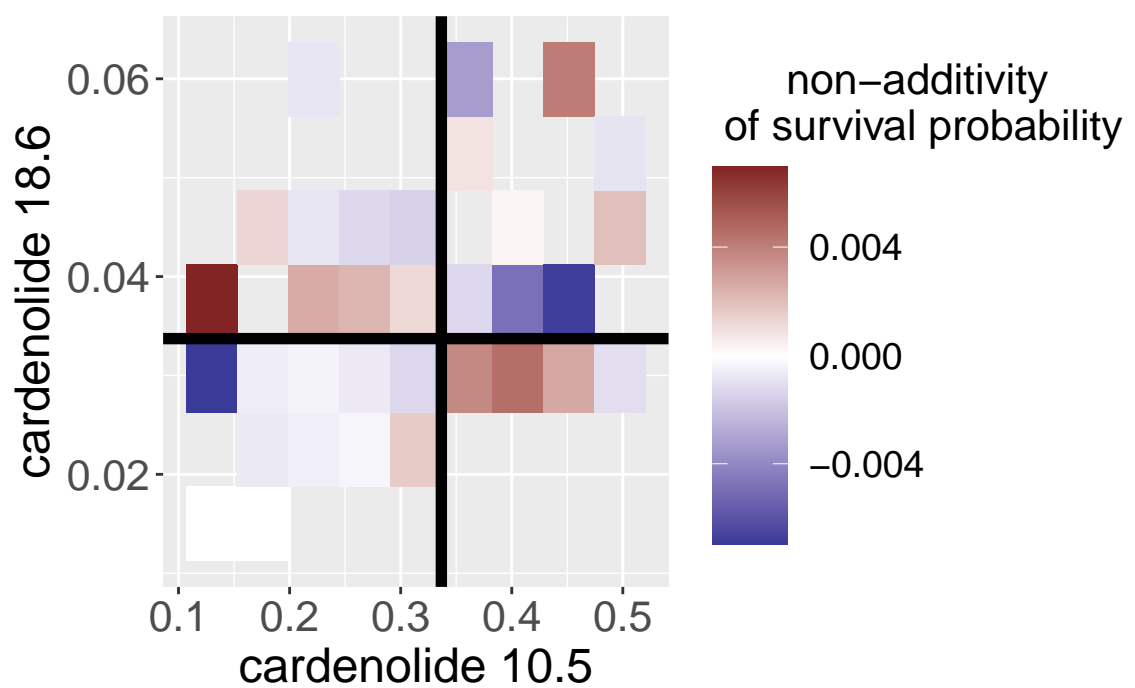
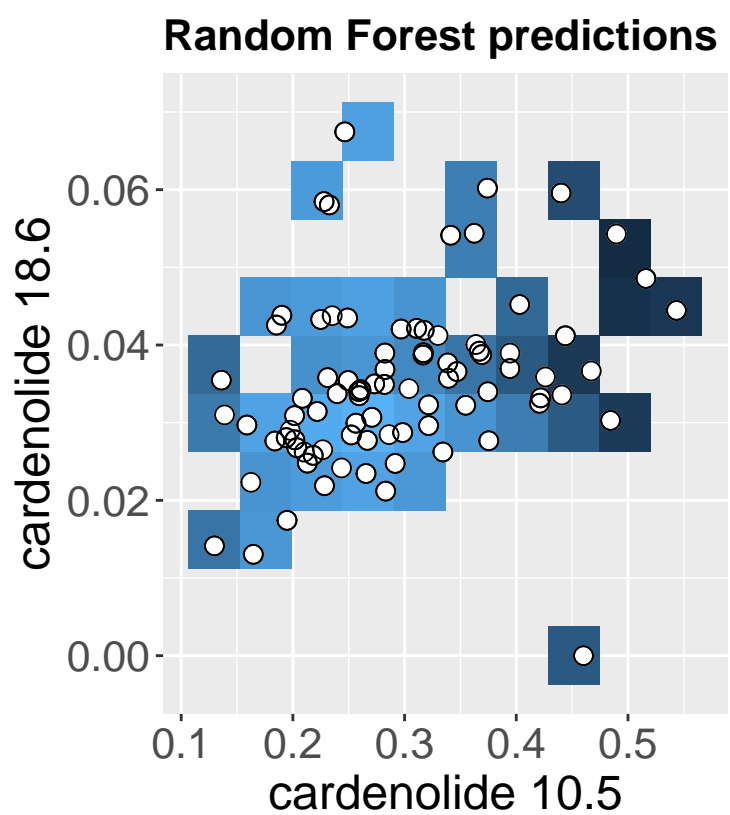
Monarch Survival

classification : antagonism

 $\theta = 0.704$, null 95%: -0.481 -- 0.556 **(bk)**

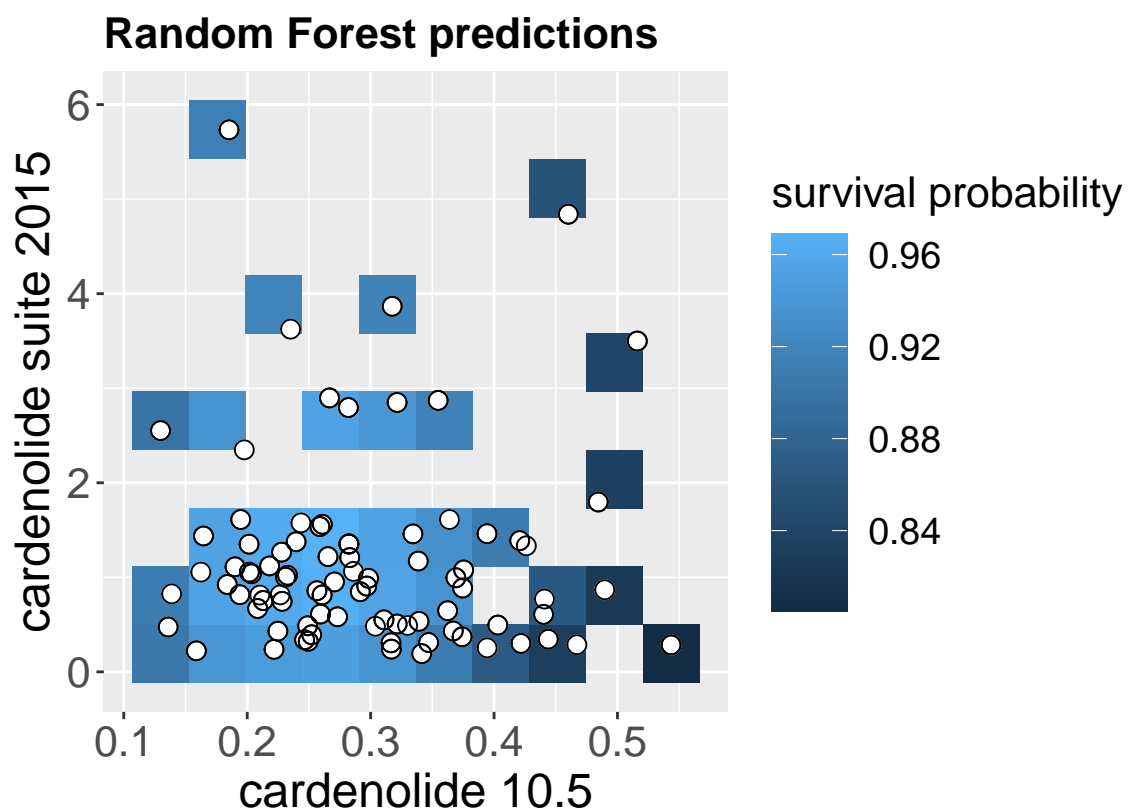
Monarch Survival

classification : unclear

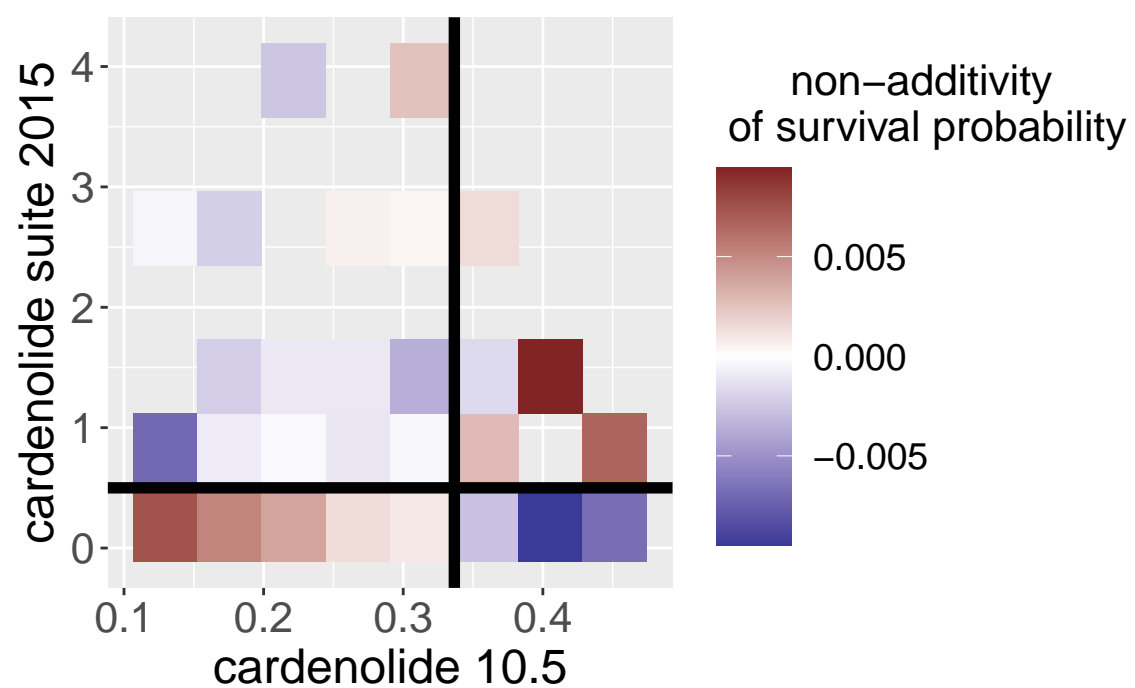
 $\theta = -0.333$, null 95%: -0.455 -- 0.515 

(bl)

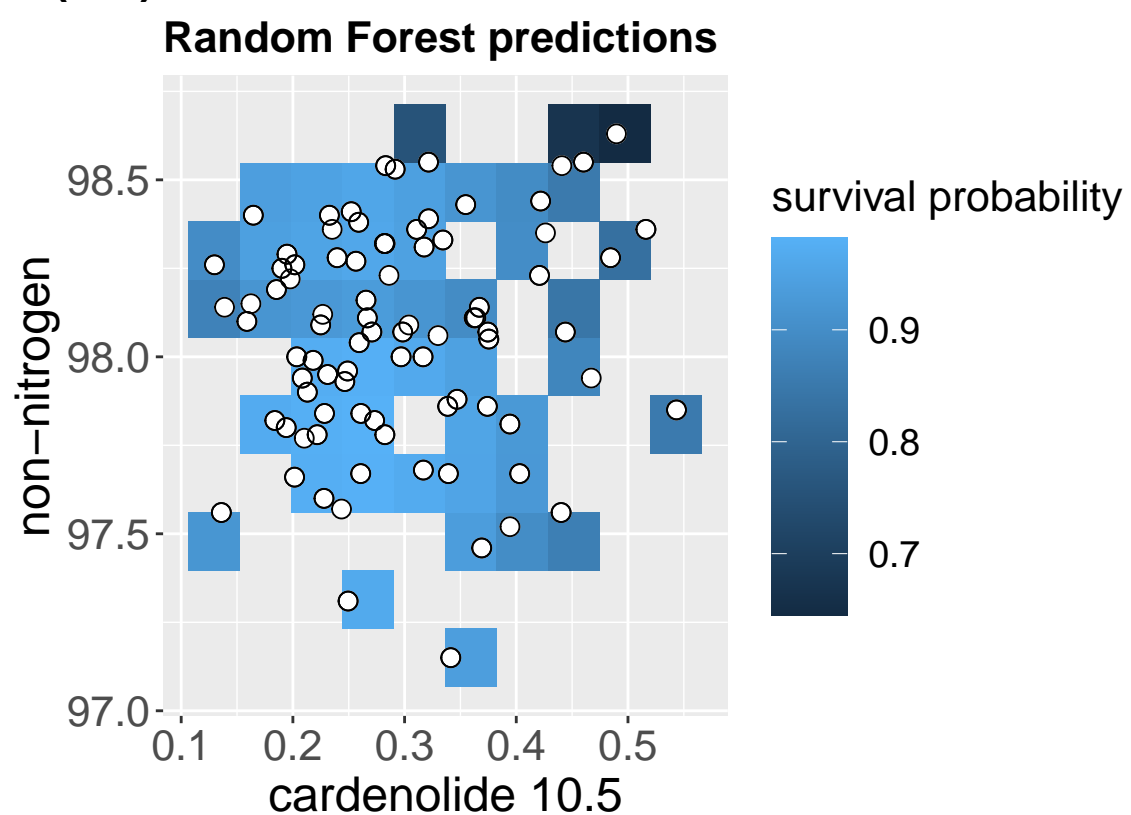
Monarch Survival



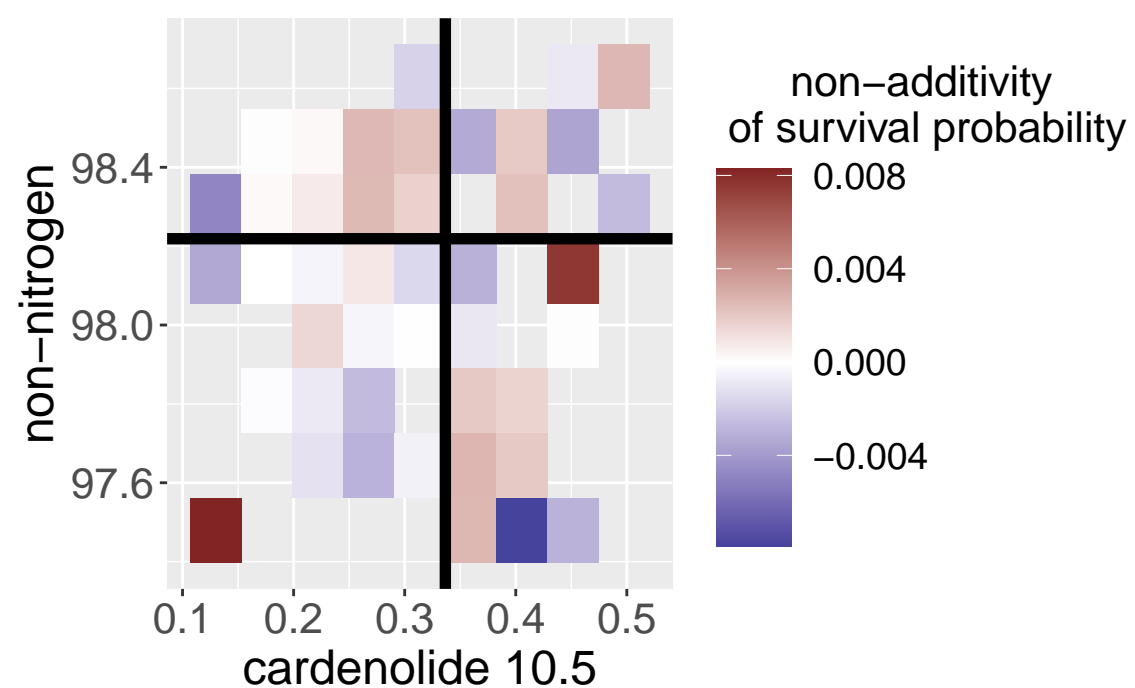
classification : antagonism

 $\theta = 0.714$, null 95%: -0.5 -- 0.571 **(bm)**

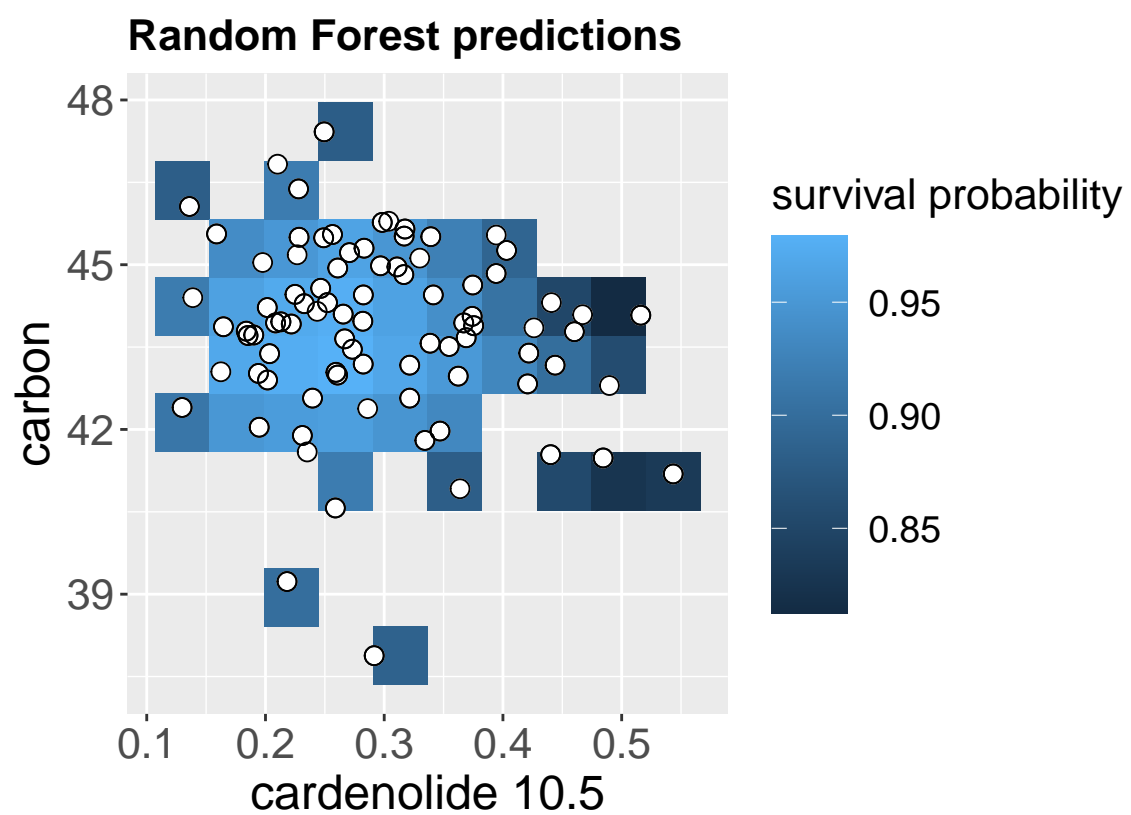
Monarch Survival



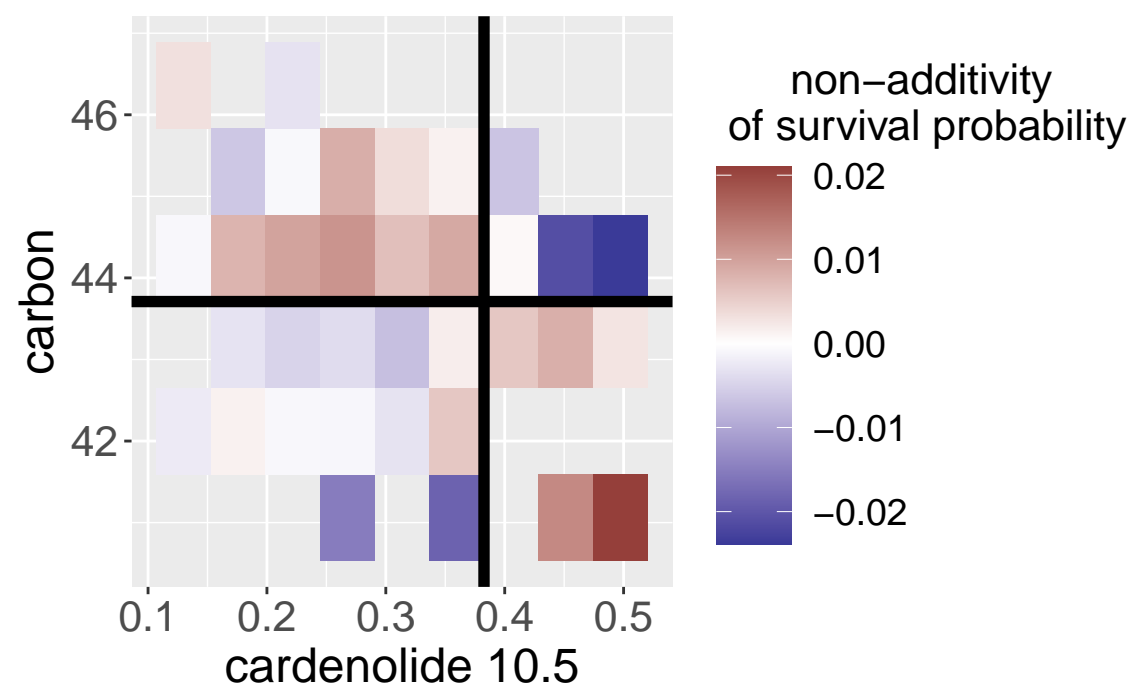
classification : unclear

 $\theta = -0.349$, null 95%: -0.442 -- 0.442 **(bn)**

Monarch Survival

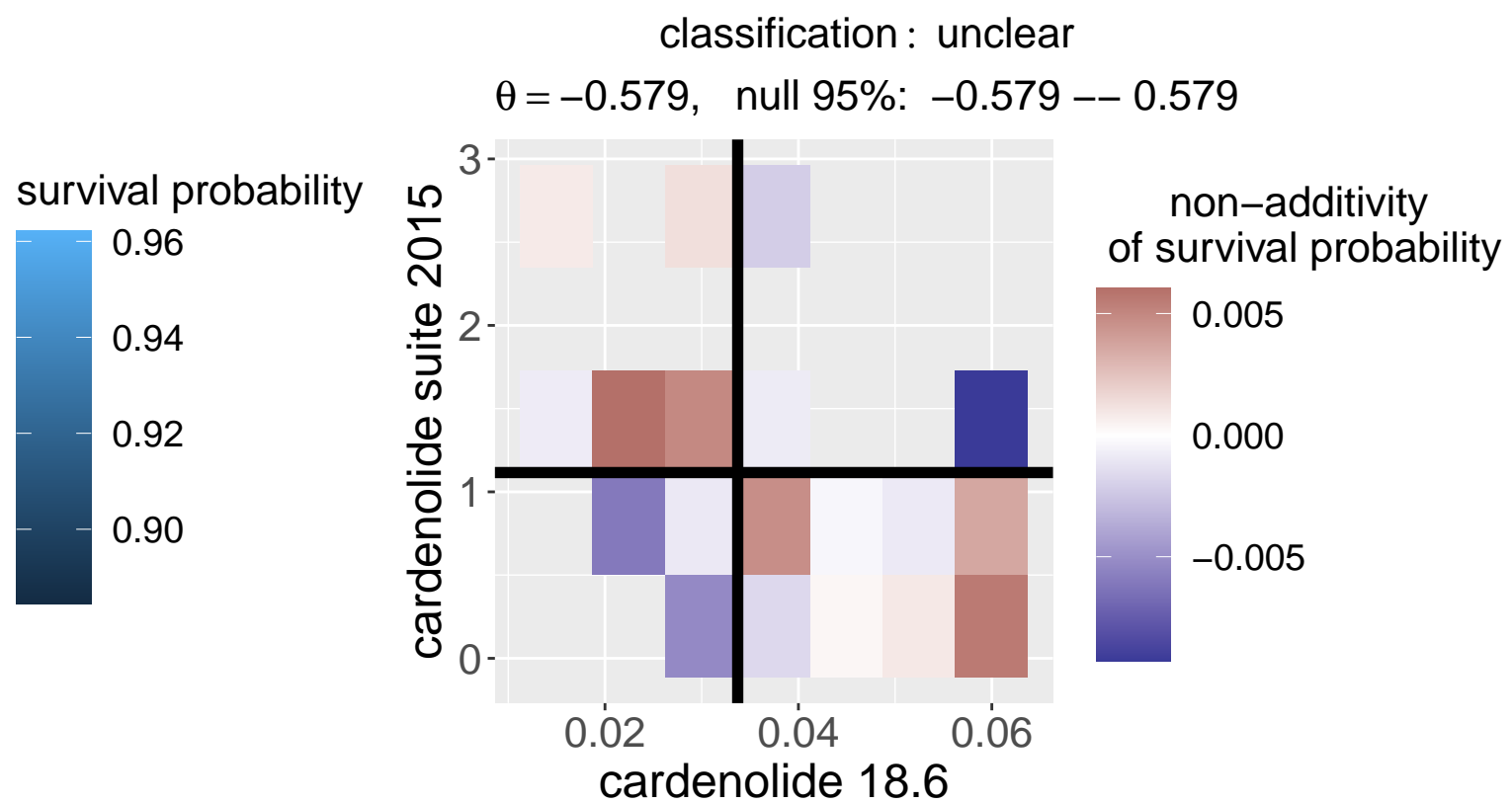
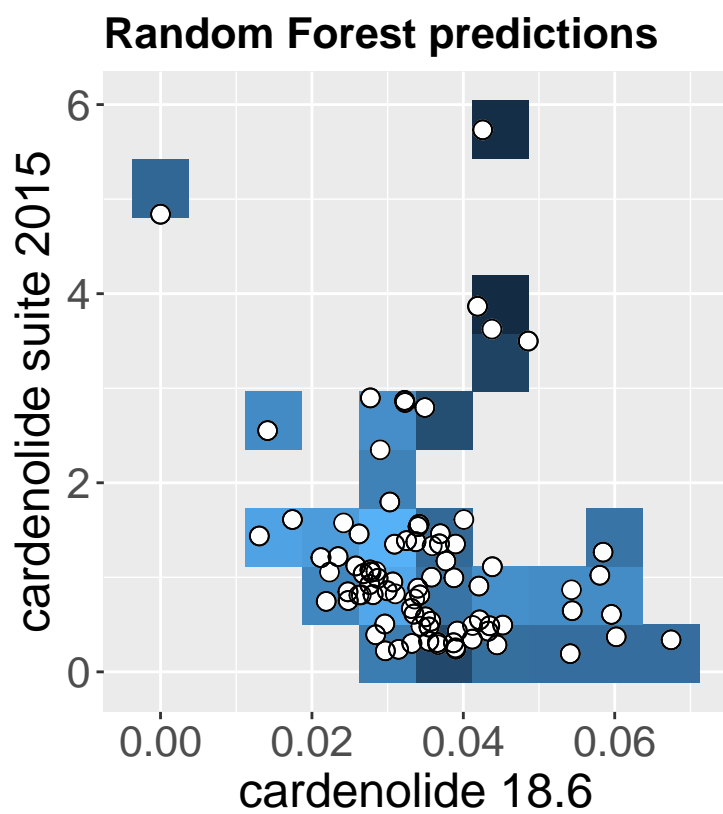


classification : synergy

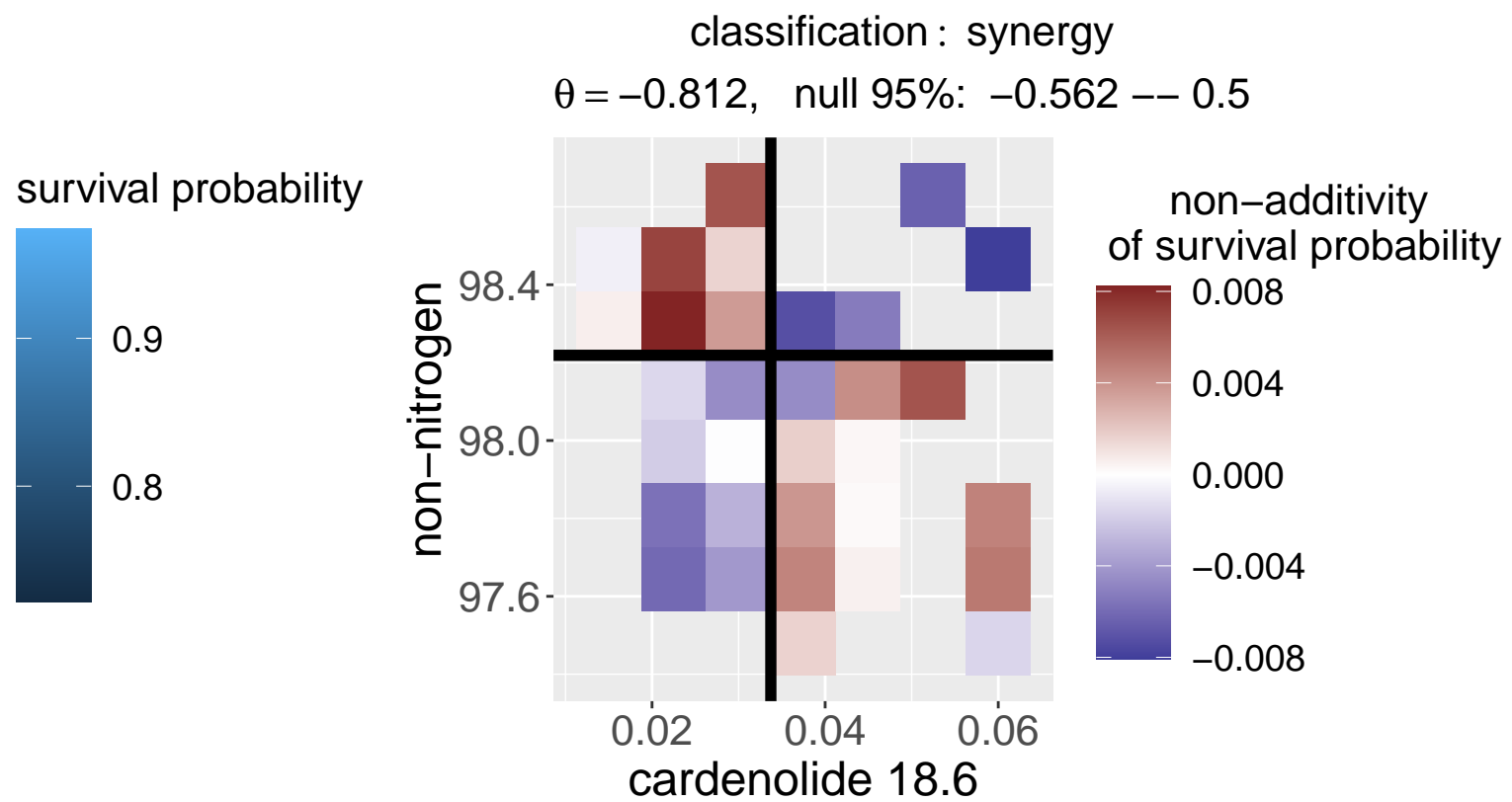
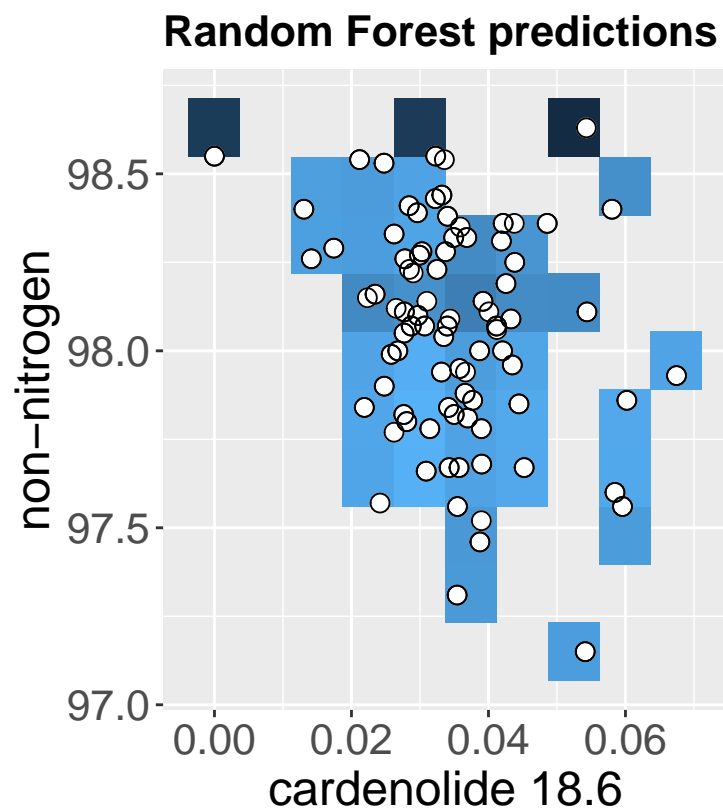
 $\theta = -0.543$, null 95%: -0.429 -- 0.429 

(bo)

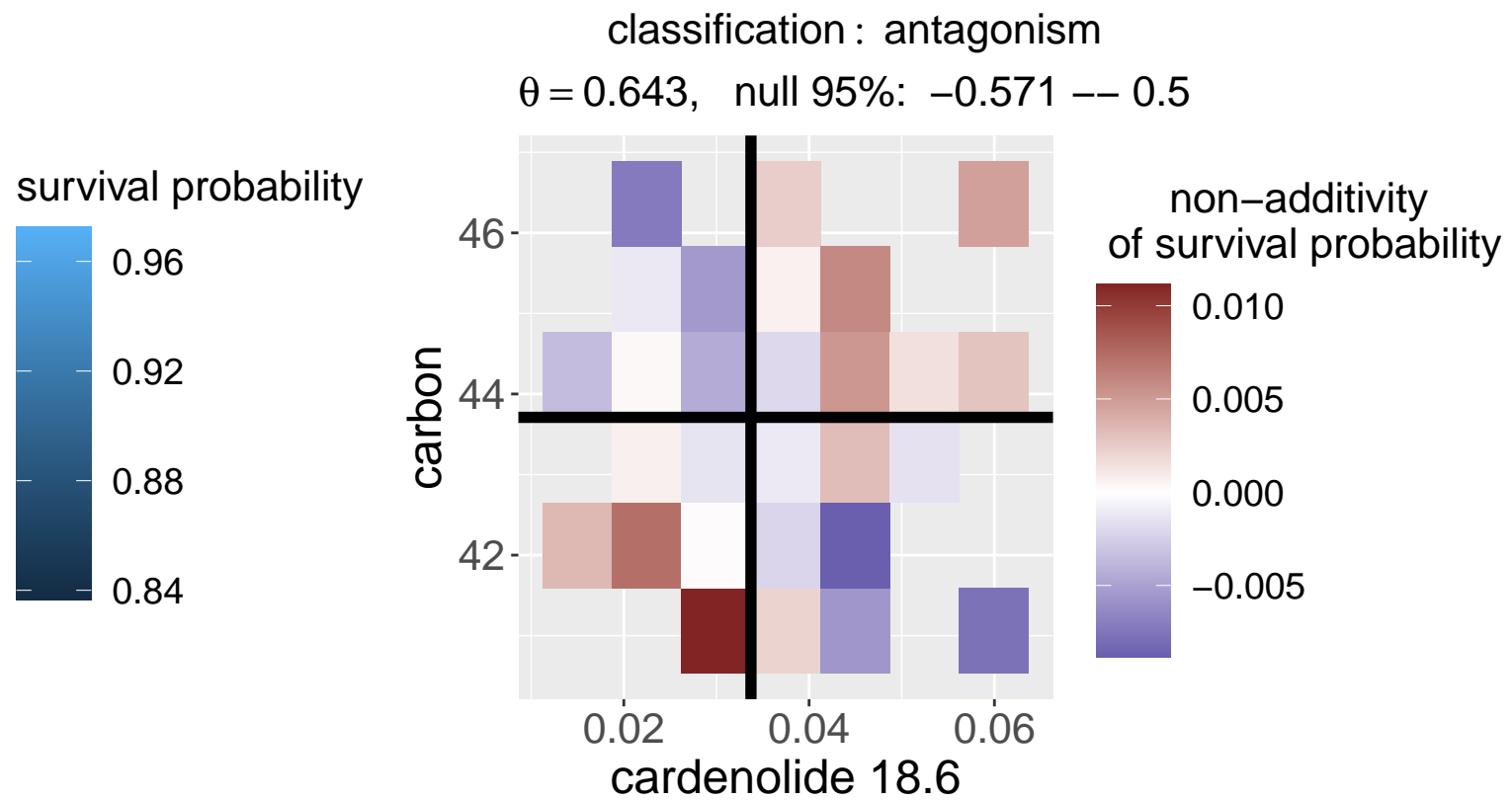
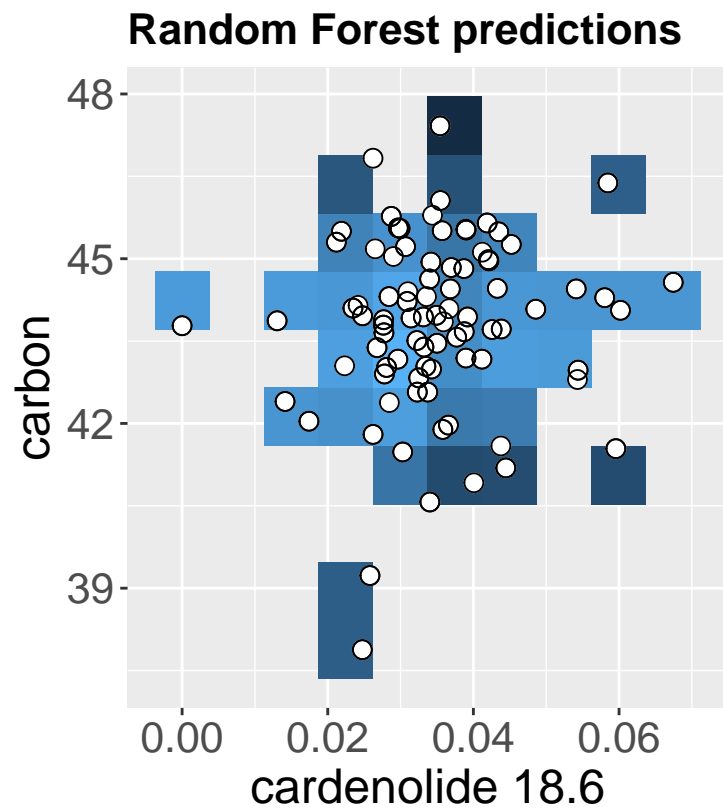
Monarch Survival

**(bp)**

Monarch Survival

**(bq)**

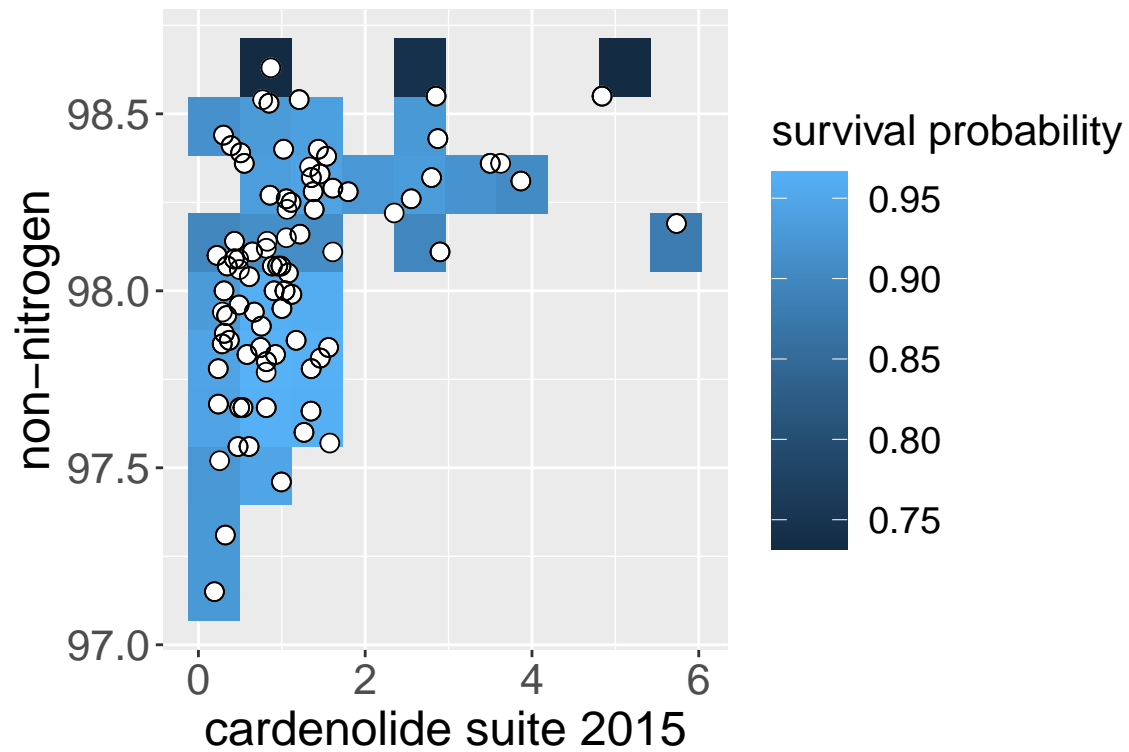
Monarch Survival



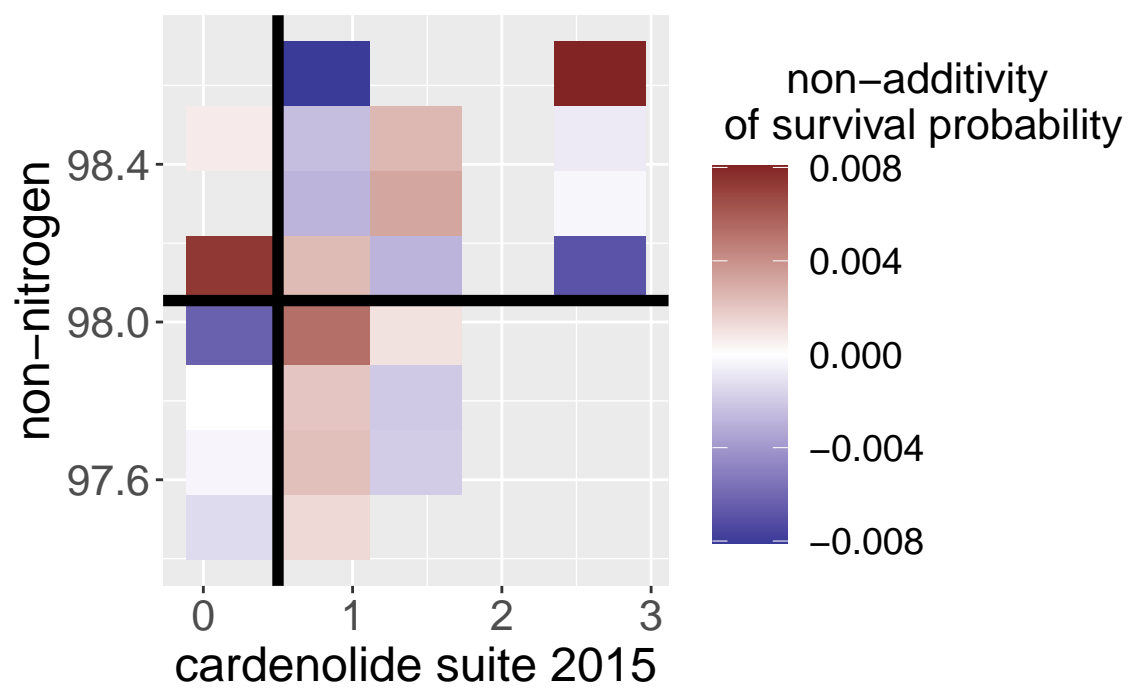
(br)

Monarch Survival

Random Forest predictions

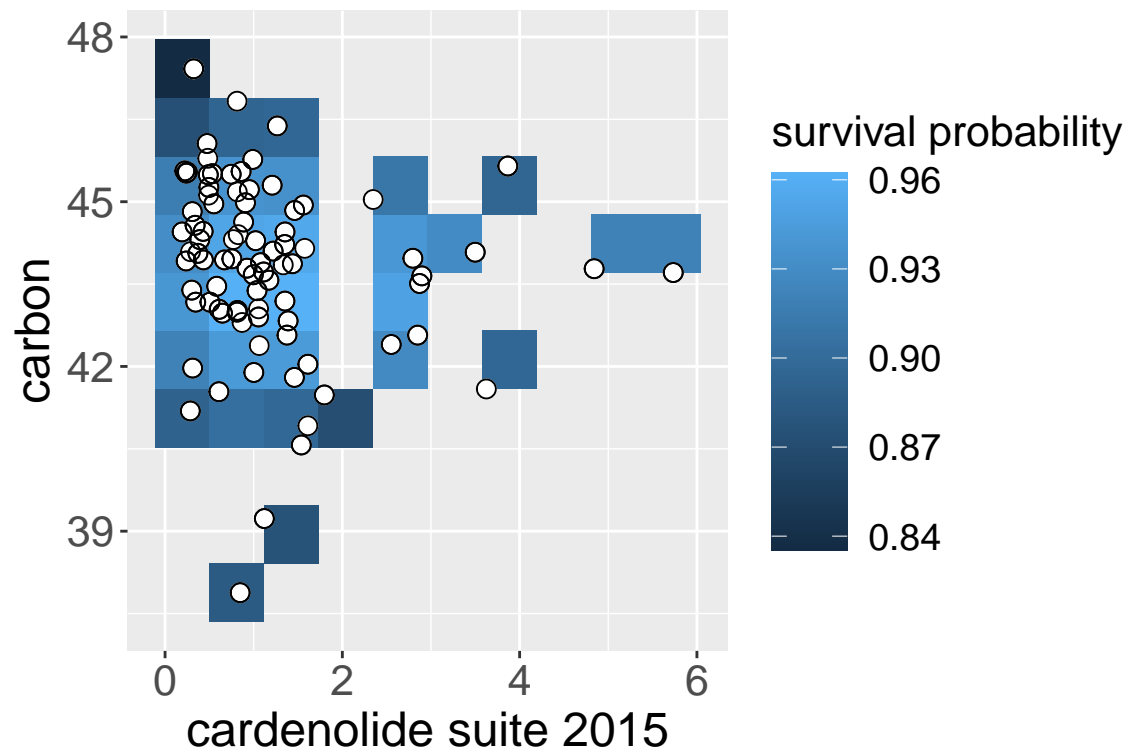


classification : unclear

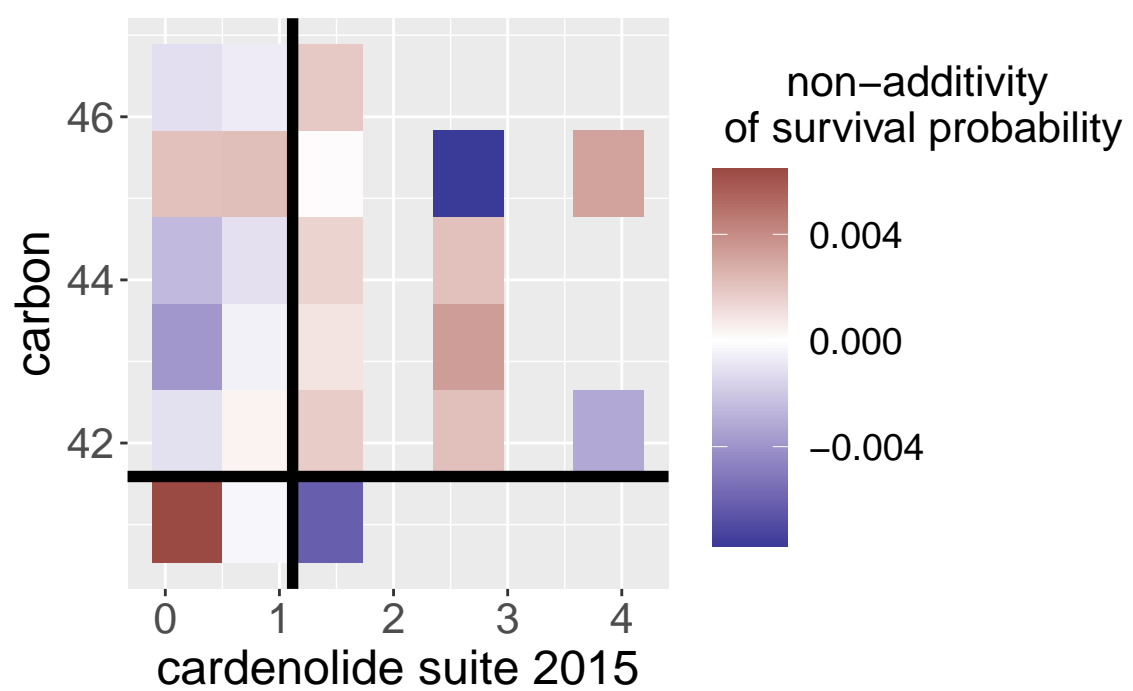
 $\theta = -0.5$, null 95%: -0.583 -- 0.583 **(bs)**

Monarch Survival

Random Forest predictions

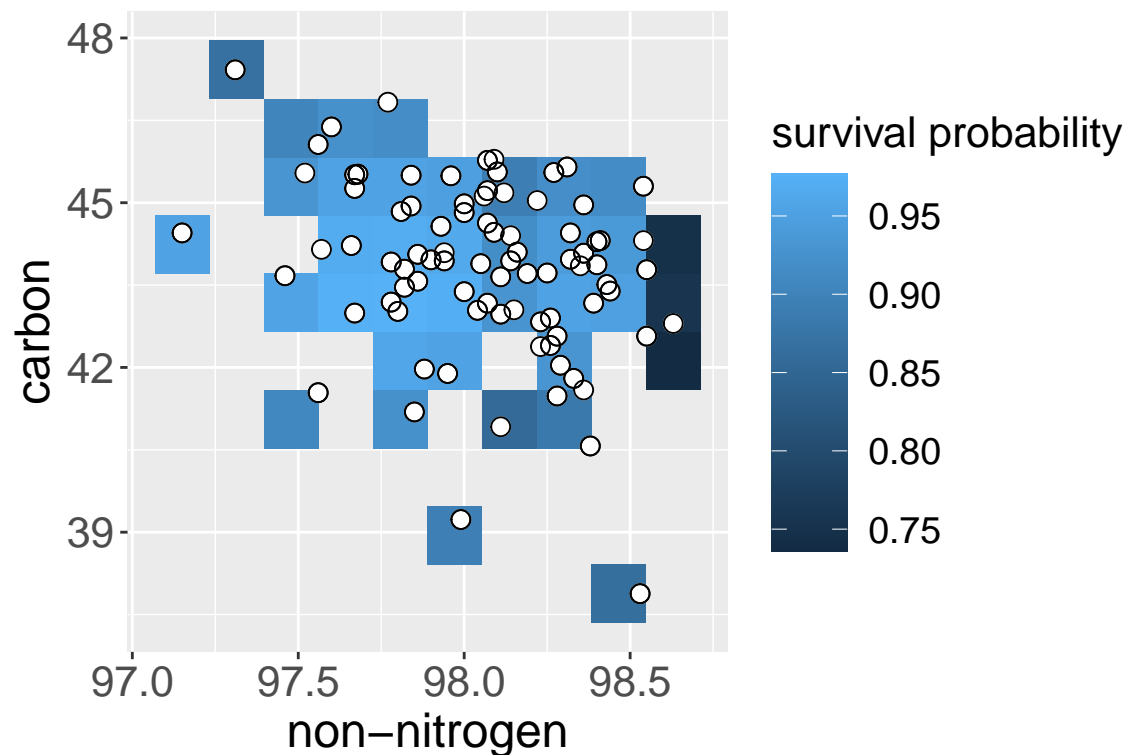


classification : unclear

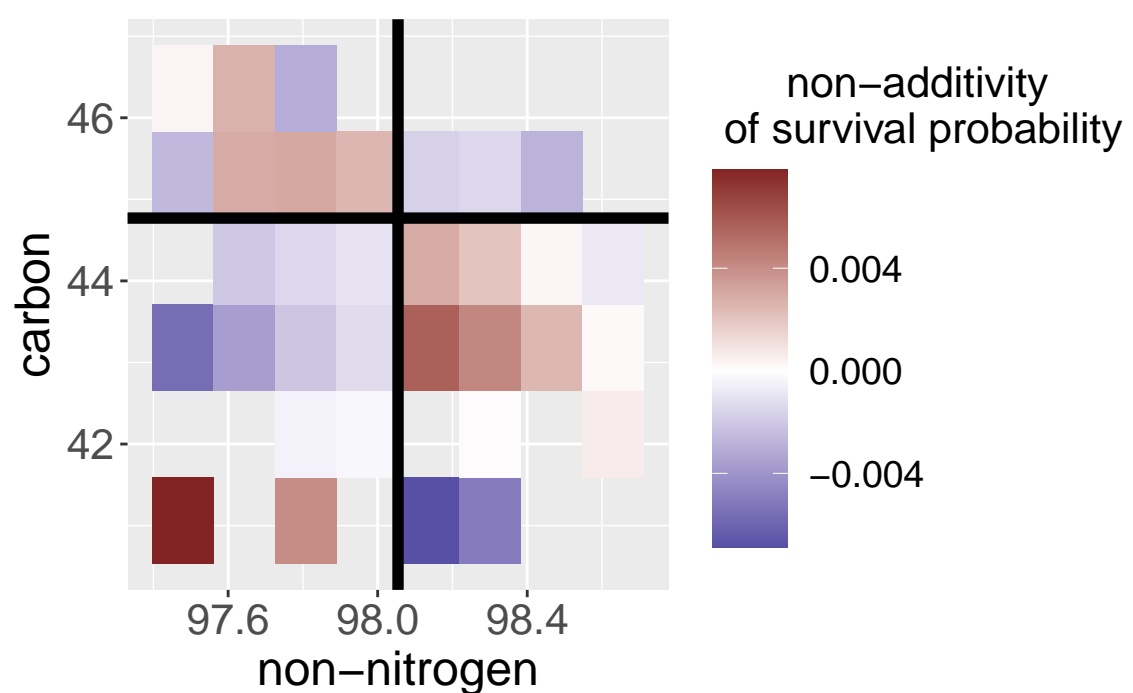
 $\theta = 0.5$, null 95%: -0.583 -- 0.583 **(bt)**

Monarch Survival

Random Forest predictions

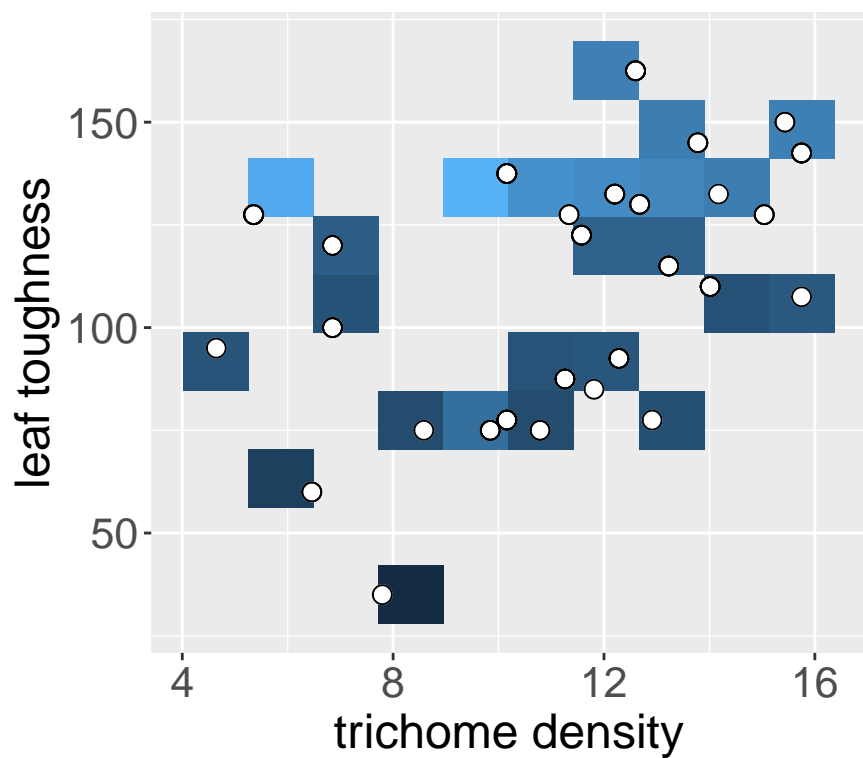


classification : synergy

 $\theta = -0.576$, null 95%: -0.455 -- 0.455 

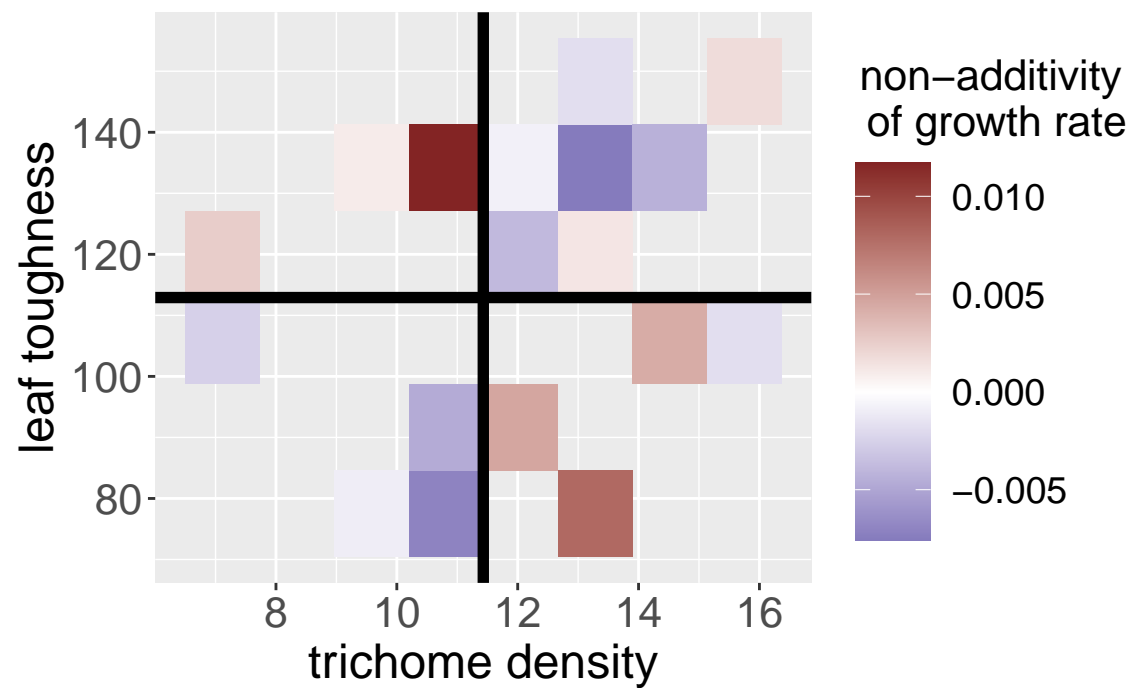
(bu)

Random Forest predictions



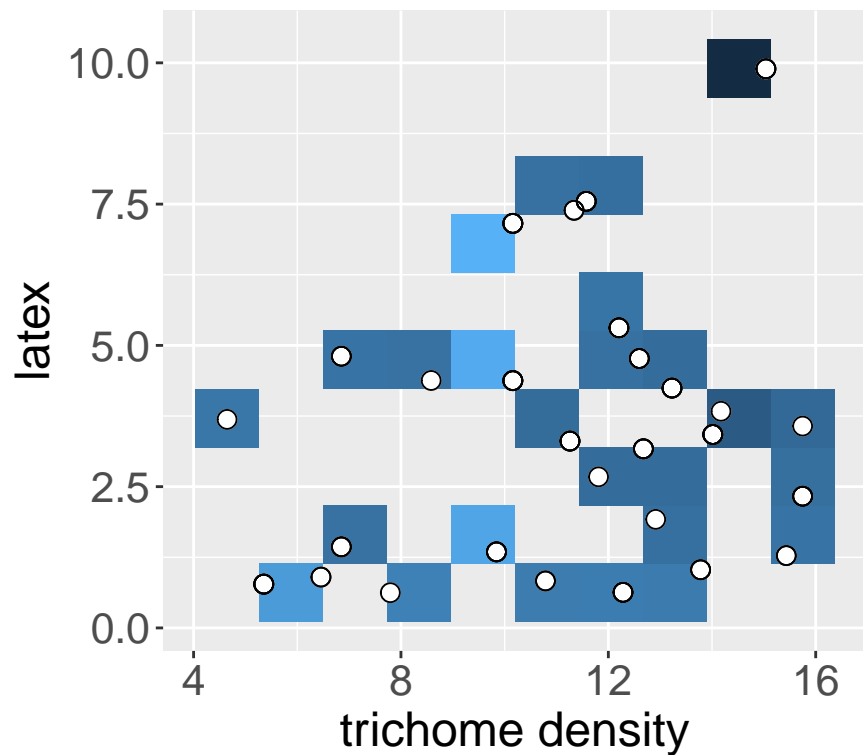
Beetle Growth

classification : unclear
 $\theta = -0.667$, null 95%: -0.667 -- 0.667



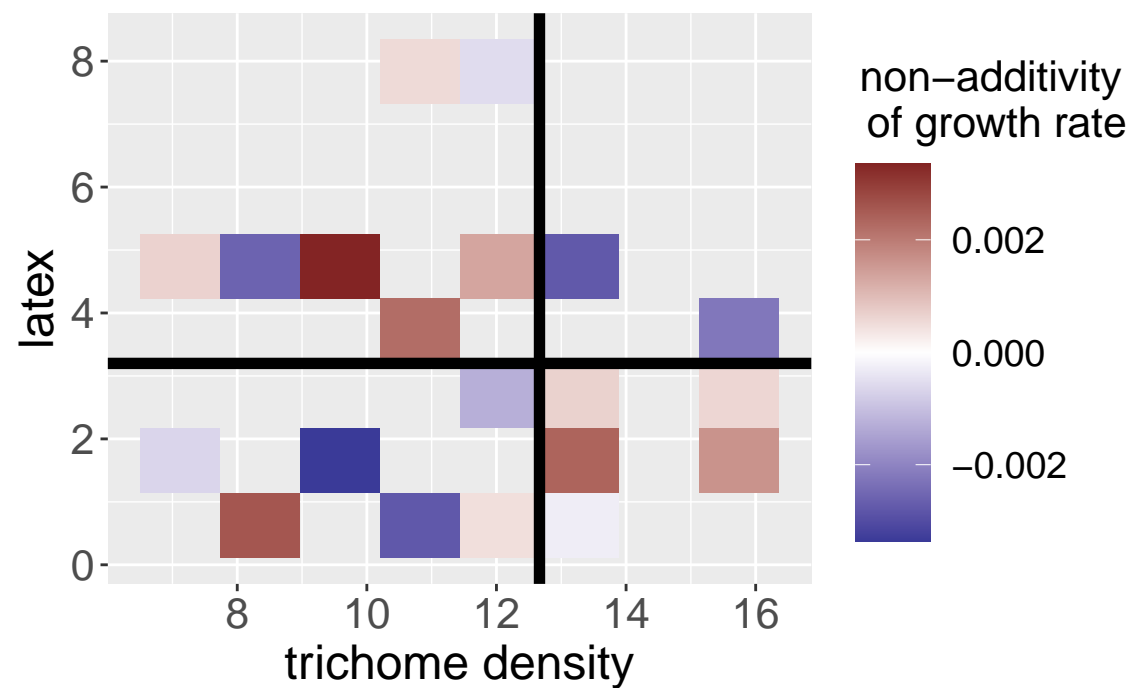
(bv)

Random Forest predictions



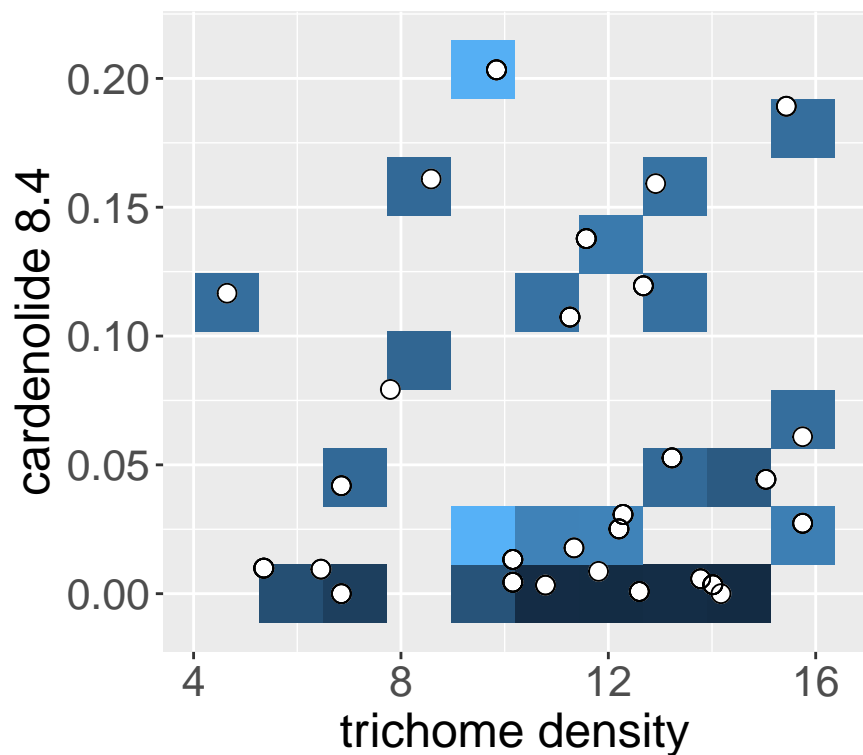
Beetle Growth

classification : unclear
 $\theta = -0.5$, null 95%: -0.7 -- 0.7



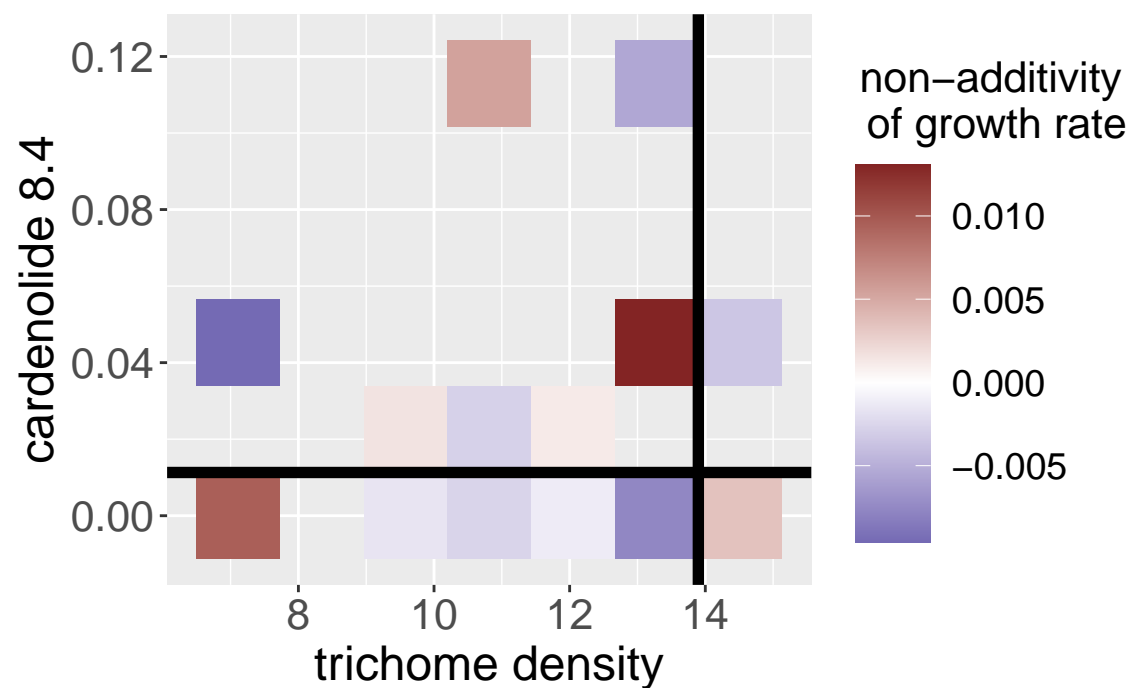
(bw)

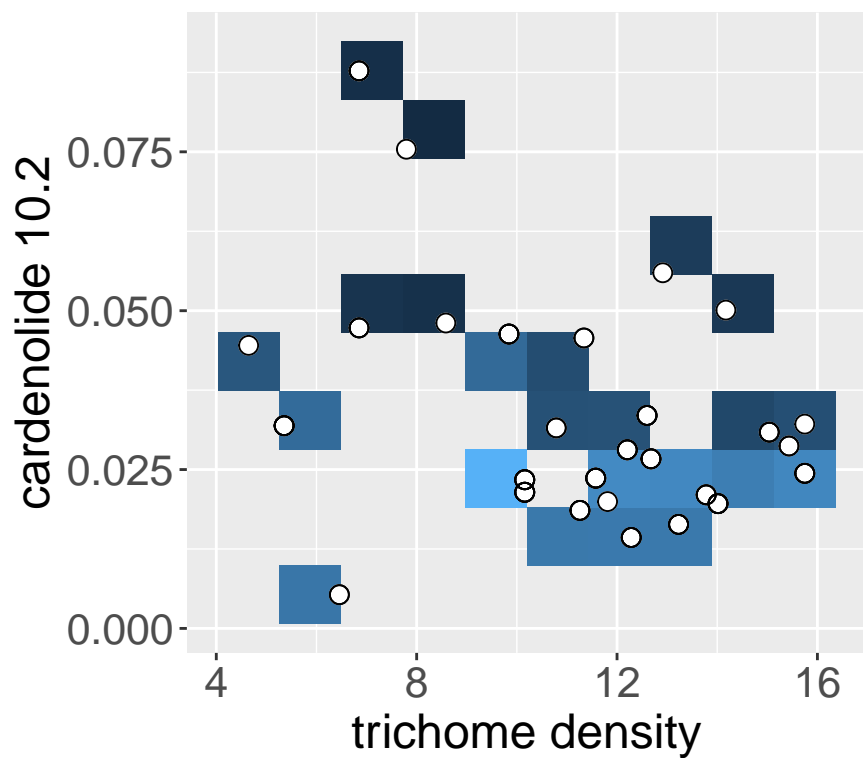
Random Forest predictions



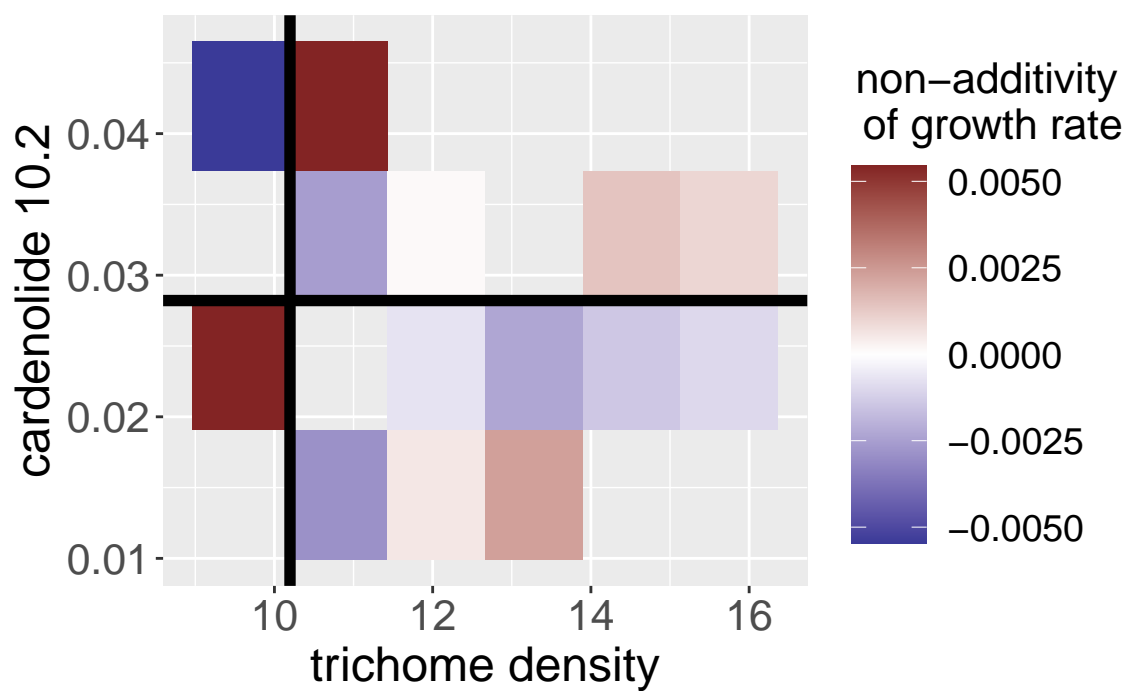
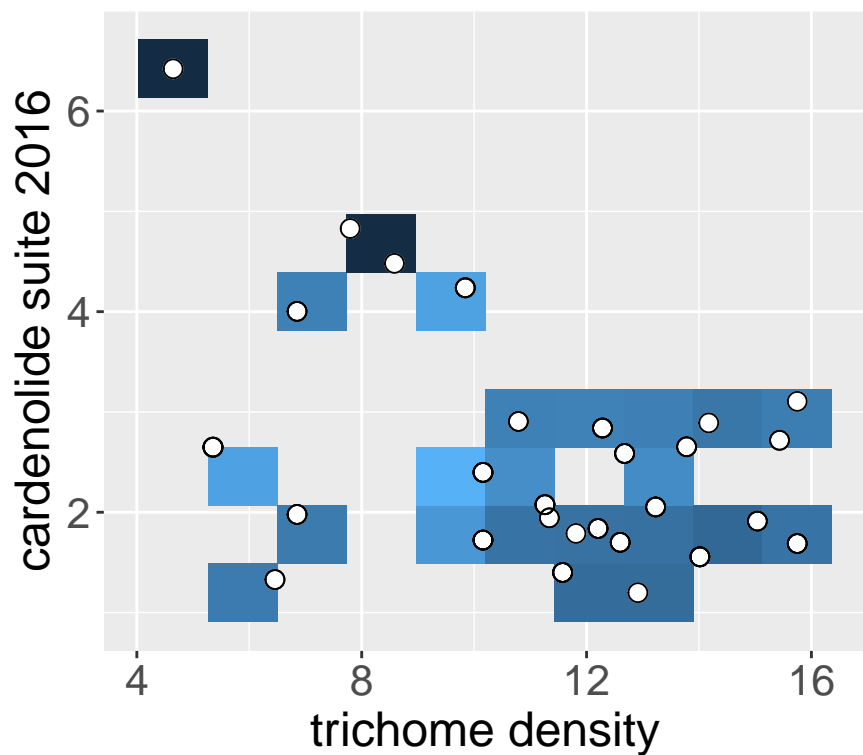
Beetle Growth

classification : unclear
 $\theta = -0.429$, null 95%: -0.857 -- 0.857

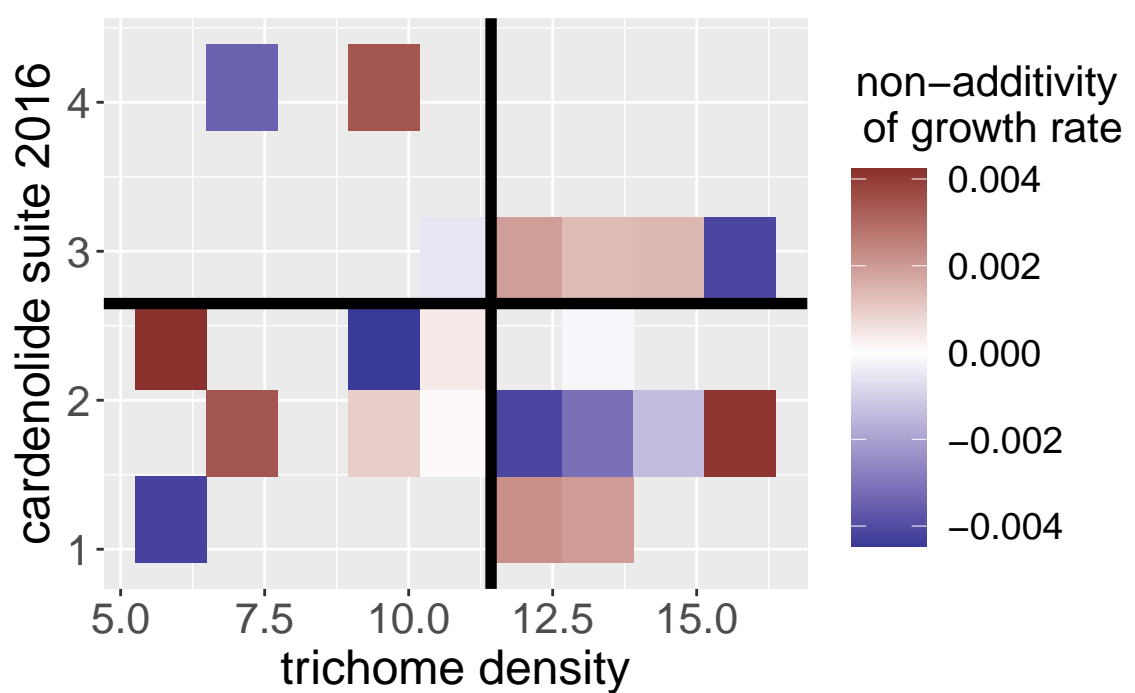
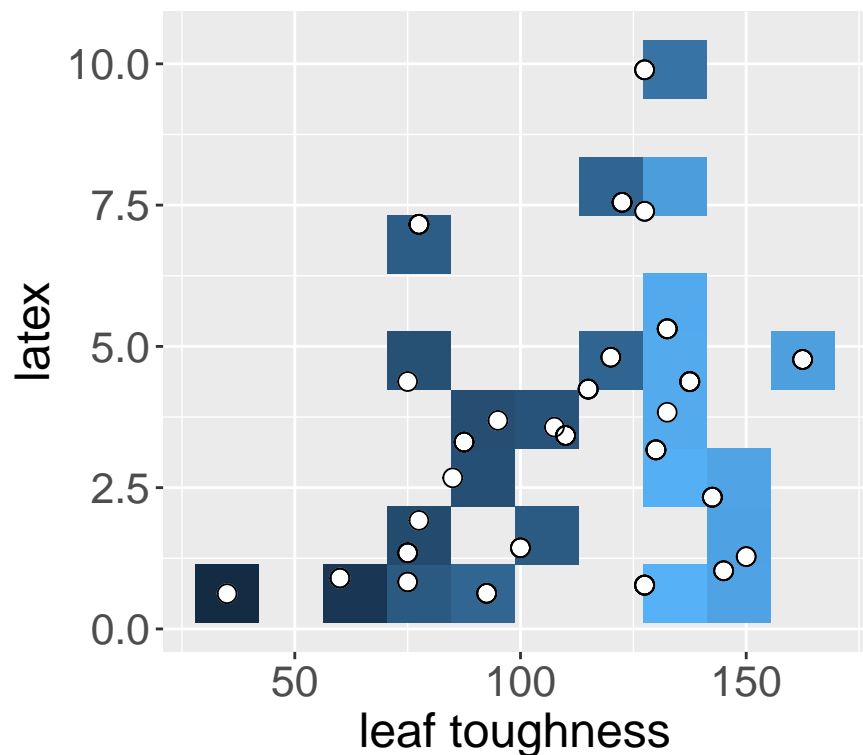


(bx)**Random Forest predictions****Beetle Growth**

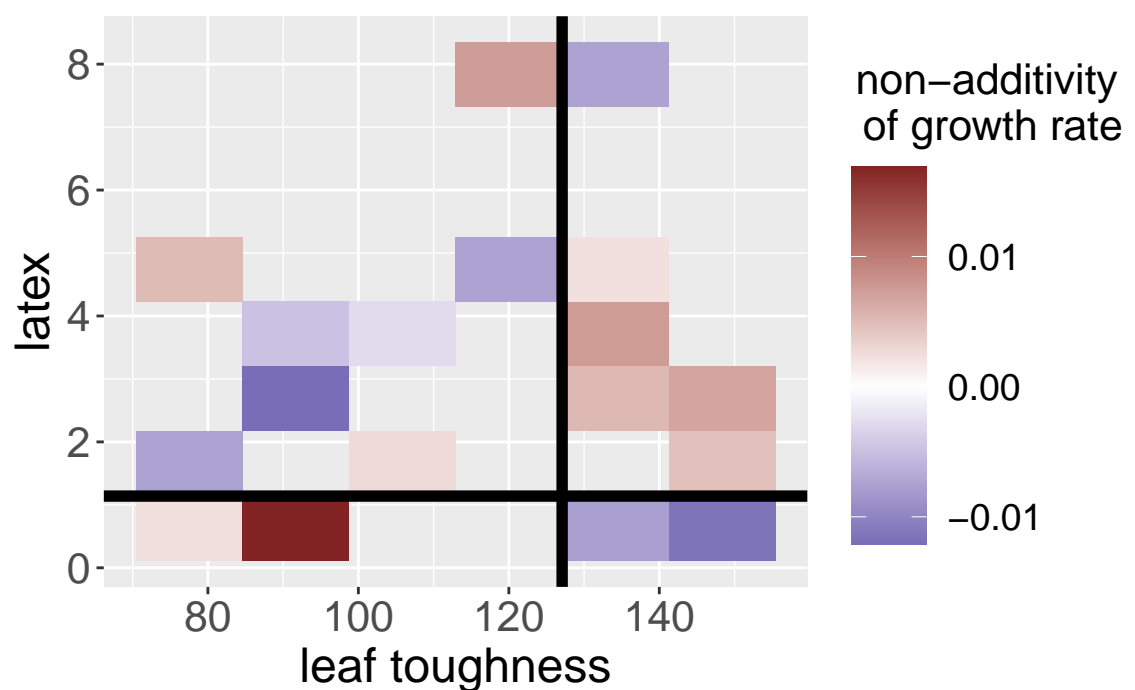
classification : unclear

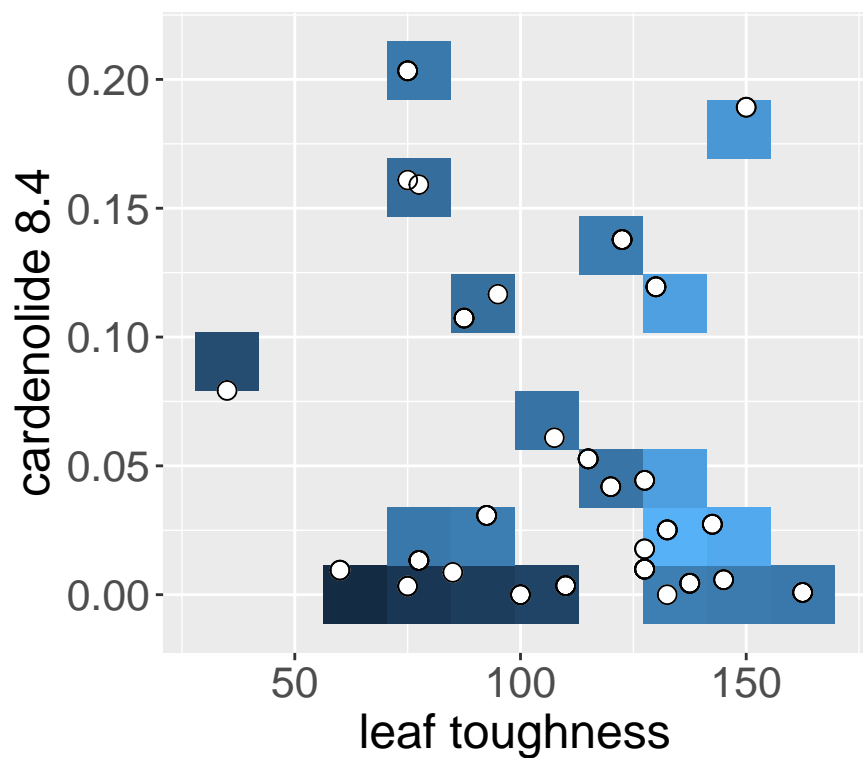
 $\theta = 0.571$, null 95%: -0.571 -- 0.571**(by)****Random Forest predictions****Beetle Growth**

classification : unclear

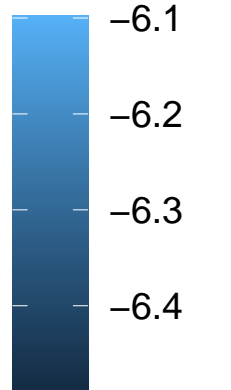
 $\theta = 0.333$, null 95%: -0.619 -- 0.619**(bz)****Random Forest predictions****Beetle Growth**

classification : unclear

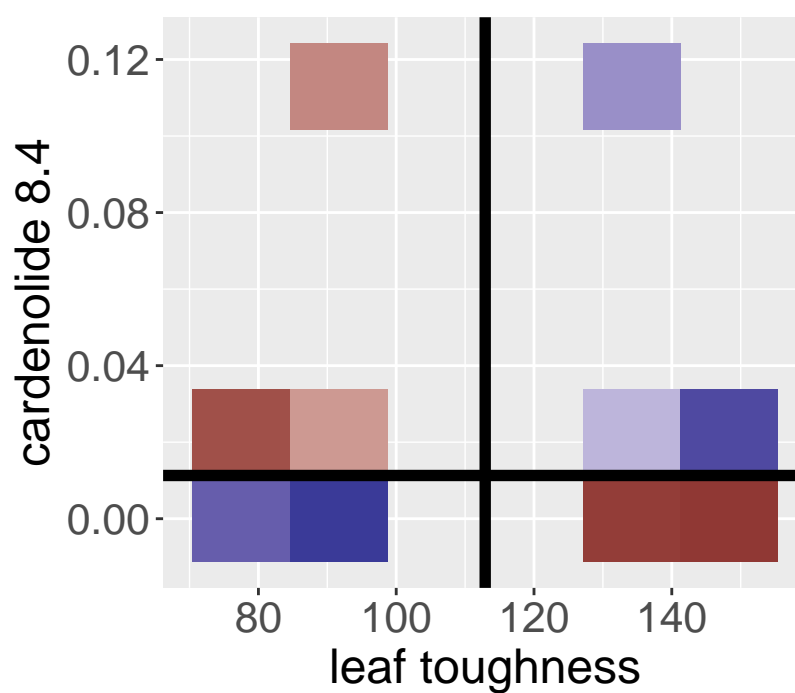
 $\theta = 0.556$, null 95%: -0.667 -- 0.667

(ca)**Beetle Growth****Random Forest predictions**

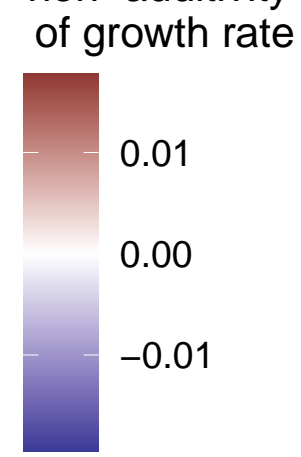
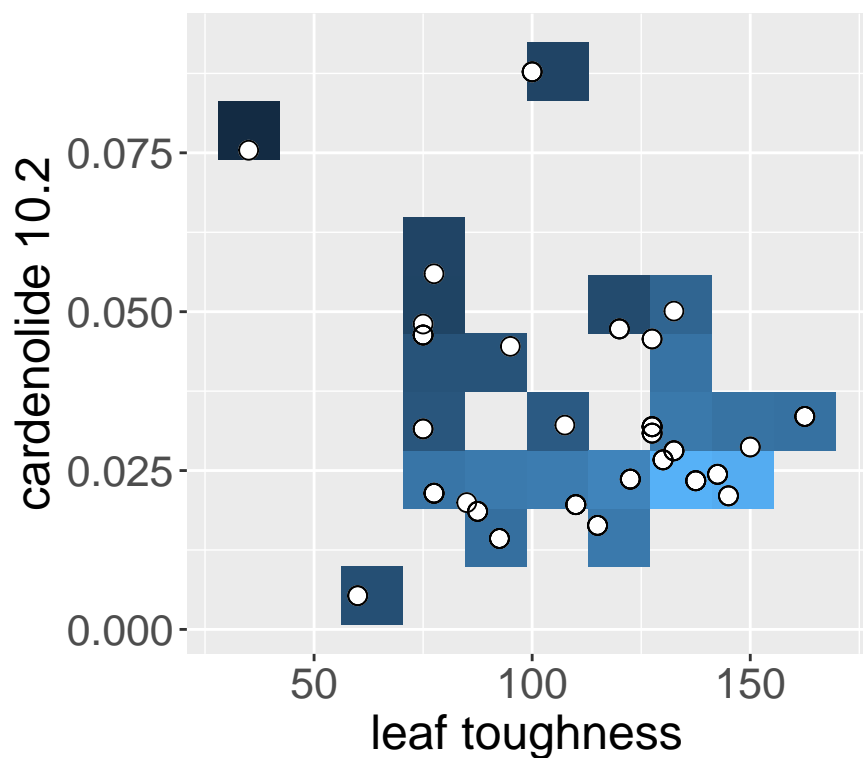
growth rate



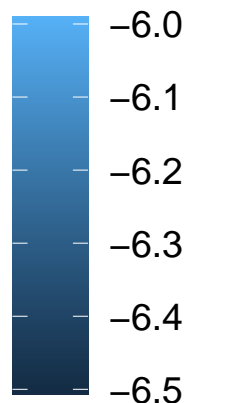
classification : unclear

 $\theta = -1$, null 95%: -1 -- 1

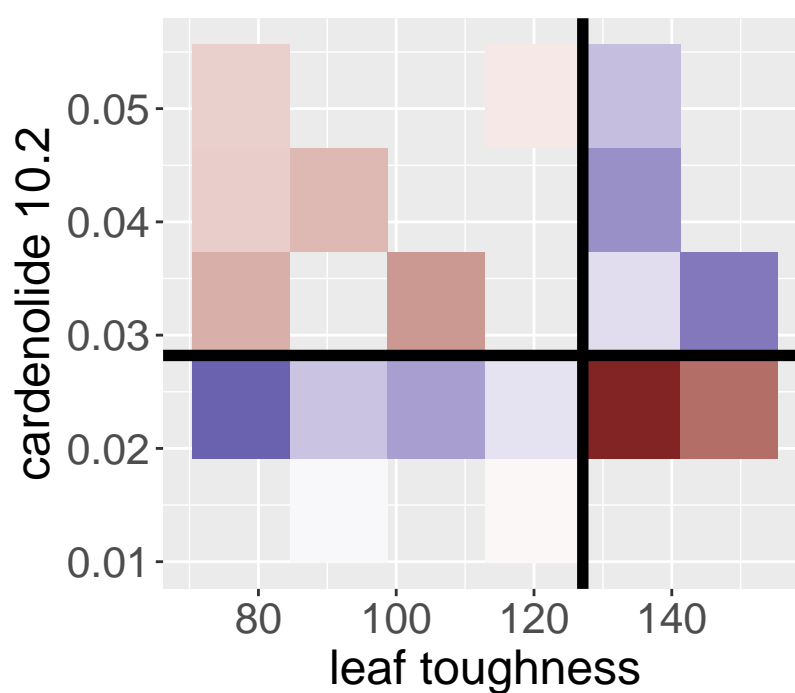
non-additivity of growth rate

**(cb)****Beetle Growth****Random Forest predictions**

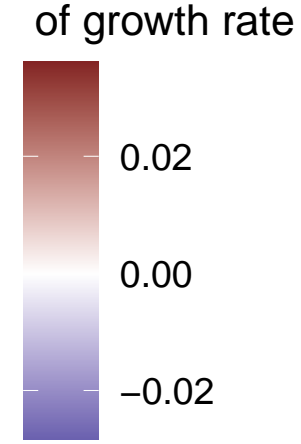
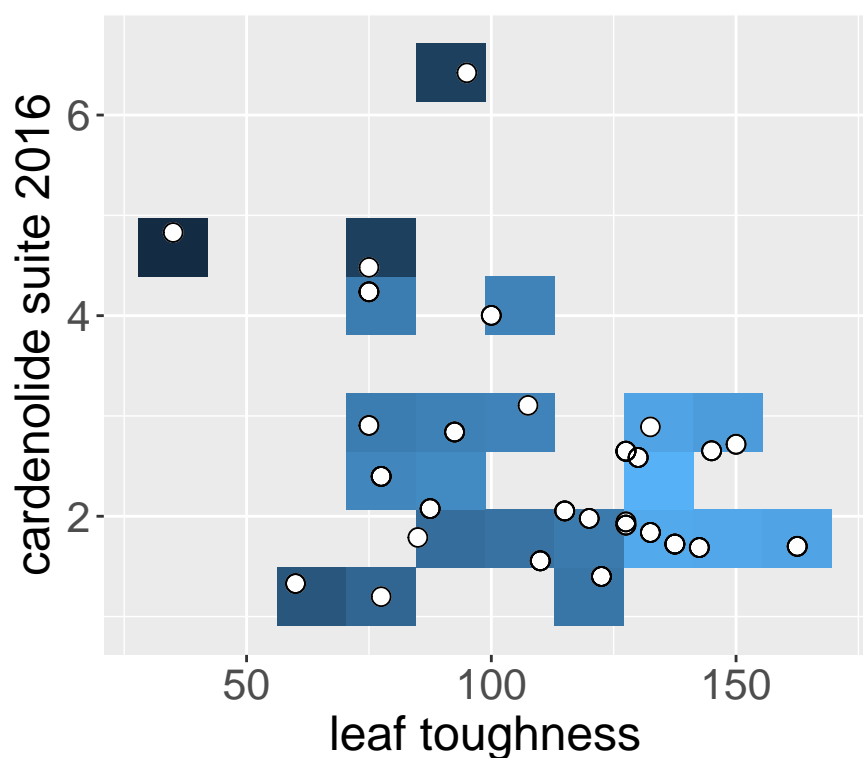
growth rate



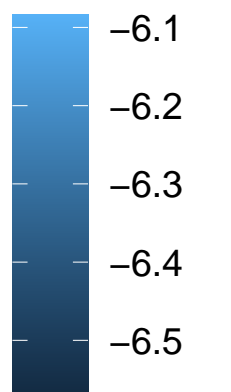
classification : synergy

 $\theta = -0.889$, null 95%: -0.667 -- 0.667

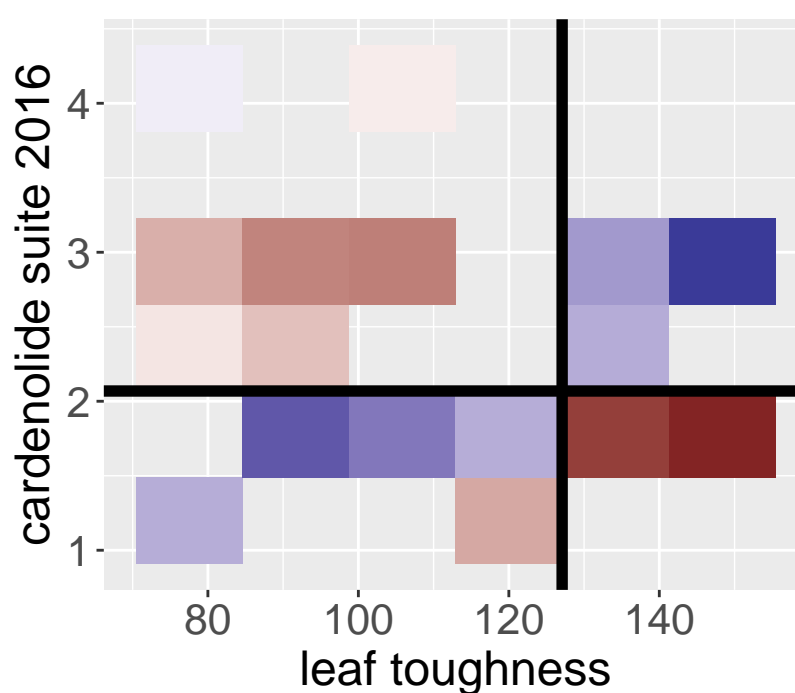
non-additivity of growth rate

**(cc)****Beetle Growth****Random Forest predictions**

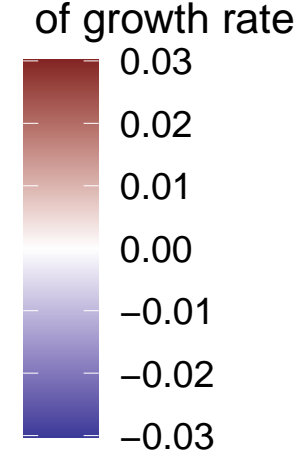
growth rate

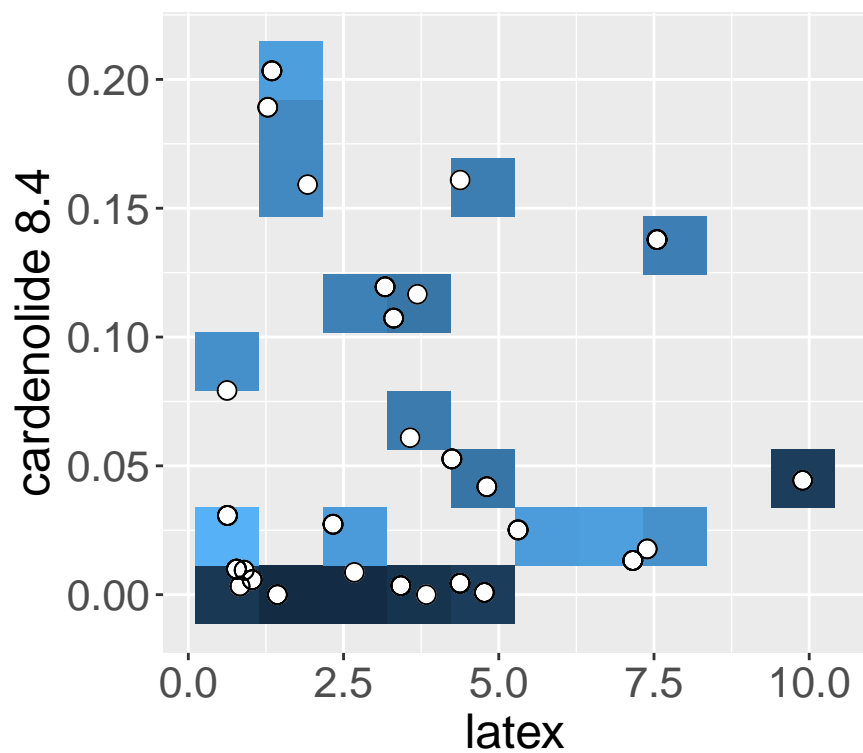


classification : synergy

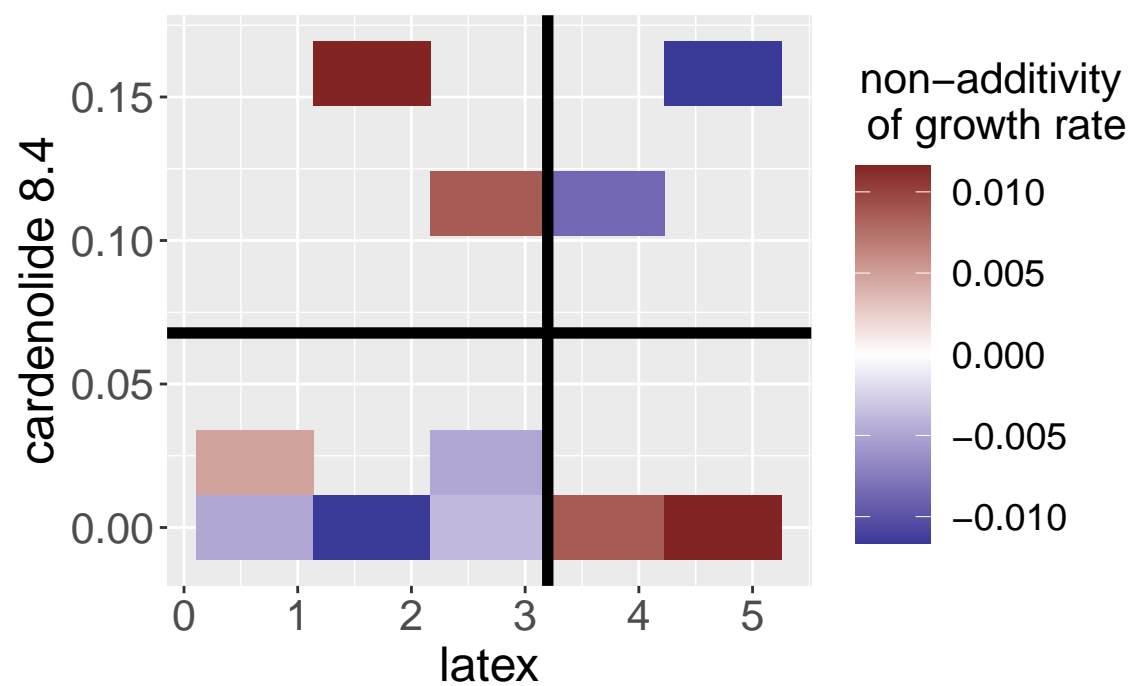
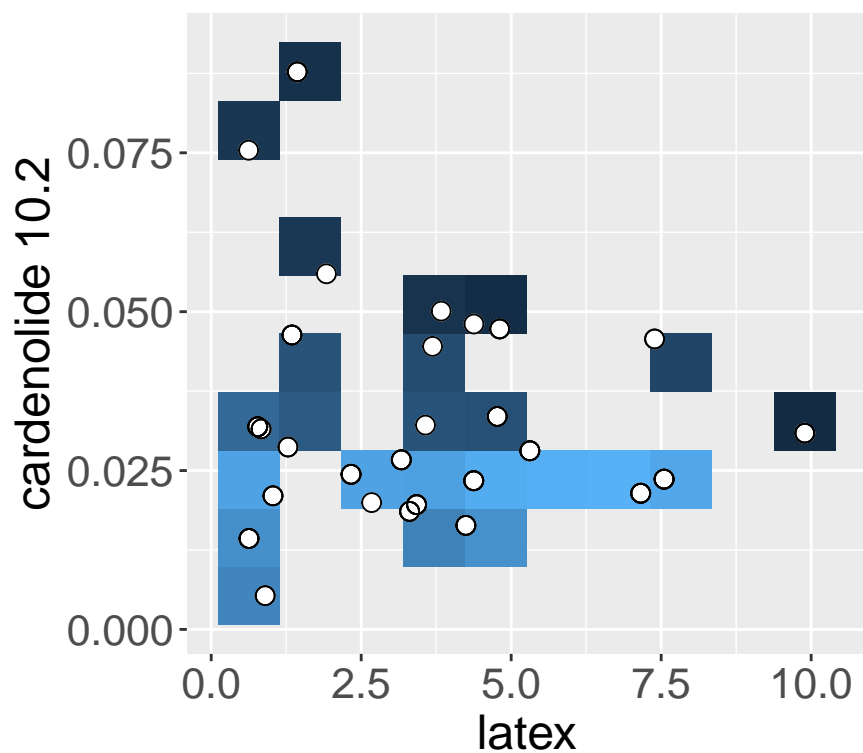
 $\theta = -0.765$, null 95%: -0.647 -- 0.647

non-additivity of growth rate

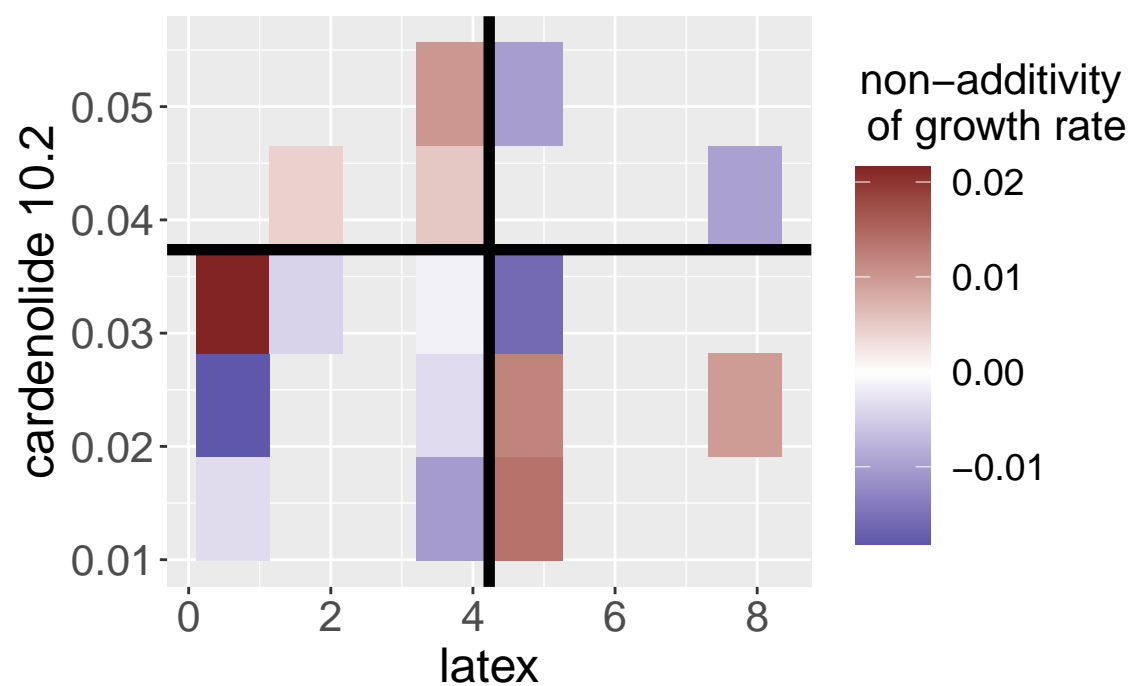
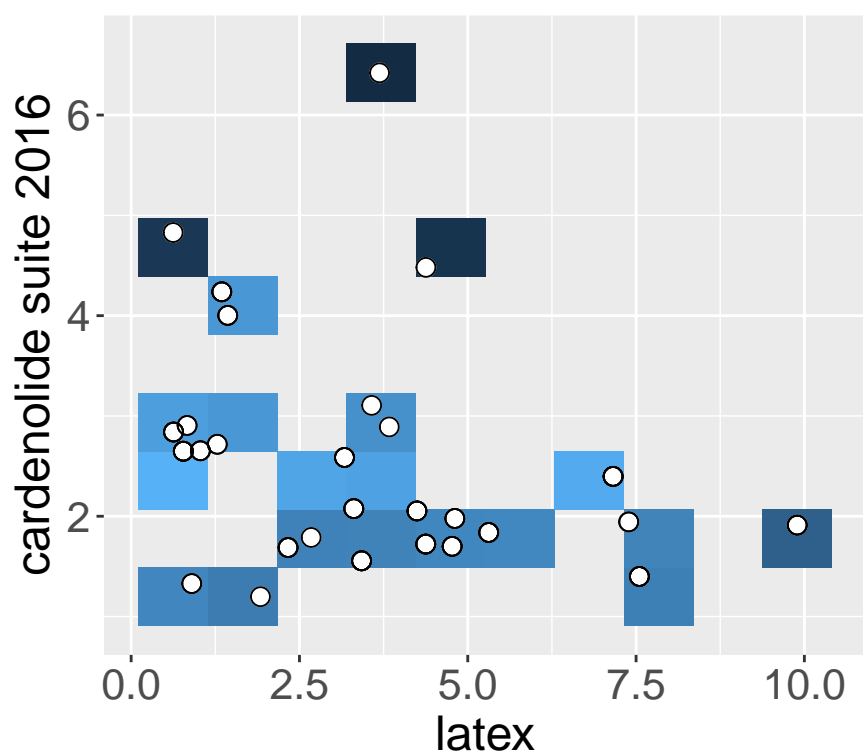


(cd)**Random Forest predictions****Beetle Growth**

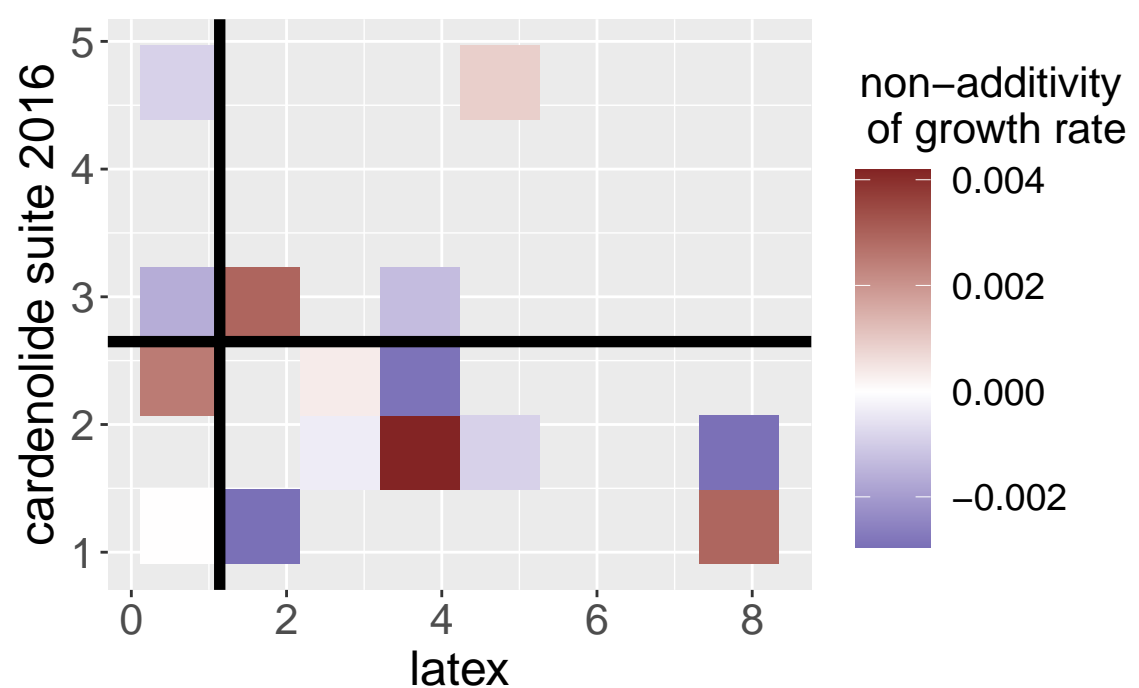
classification : unclear

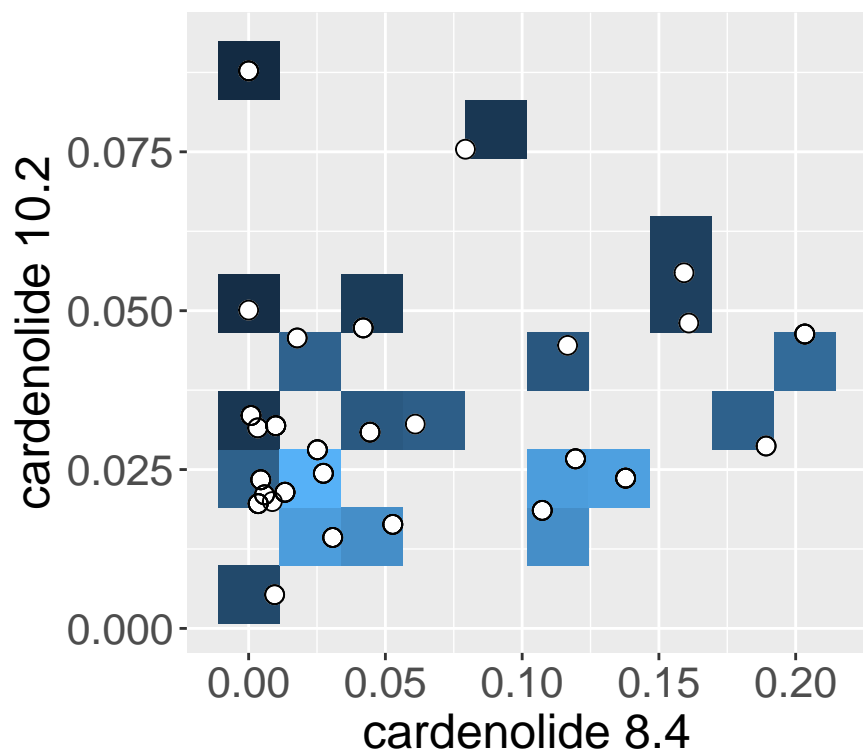
 $\theta = -0.818$, null 95%: -0.818 -- 0.818 **(ce)****Random Forest predictions****Beetle Growth**

classification : synergy

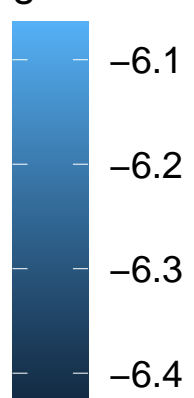
 $\theta = -0.75$, null 95%: -0.625 -- 0.625 **(cf)****Random Forest predictions****Beetle Growth**

classification : unclear

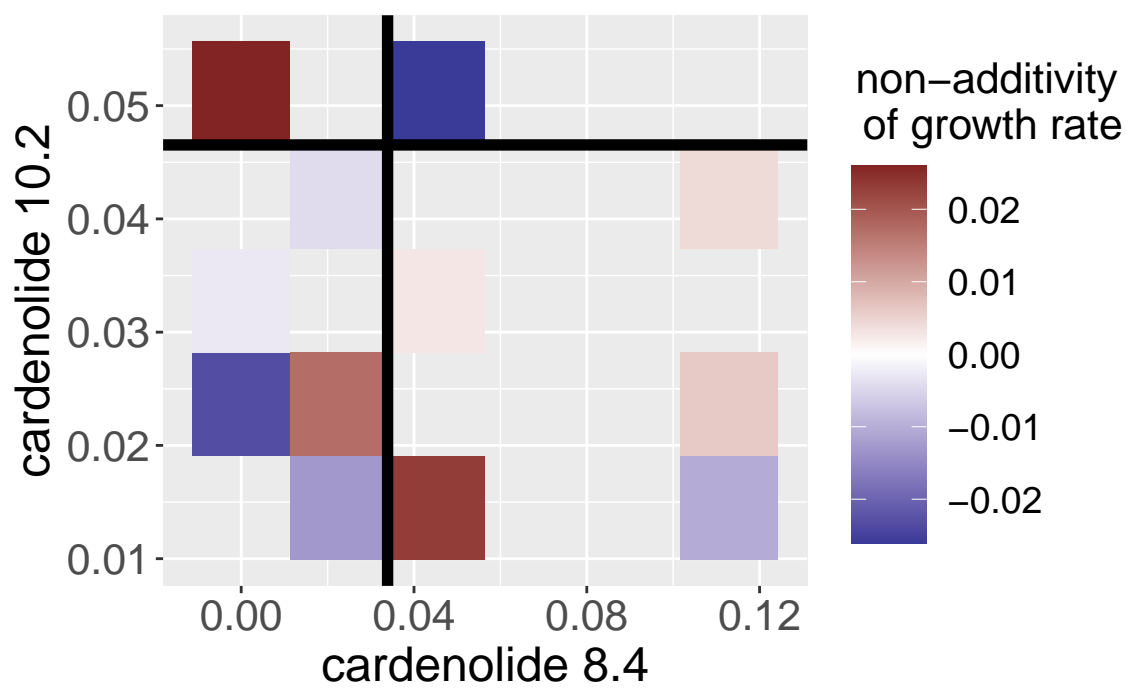
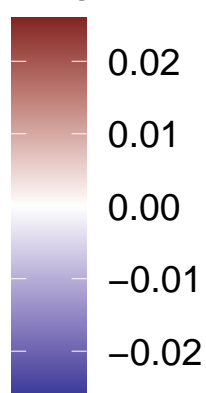
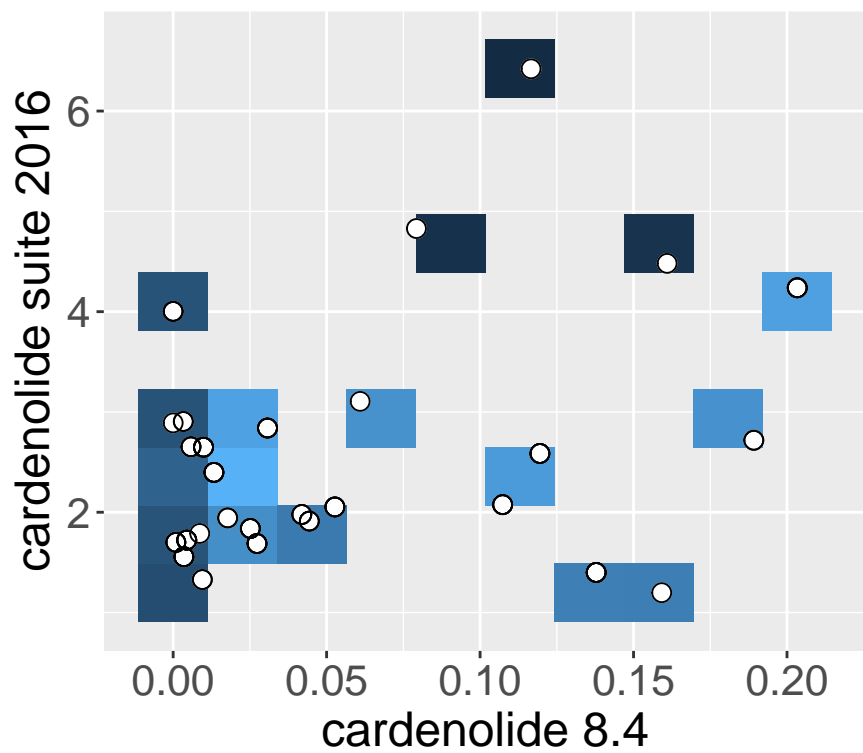
 $\theta = 0.467$, null 95%: -0.733 -- 0.733 

(cg)**Beetle Growth****Random Forest predictions**

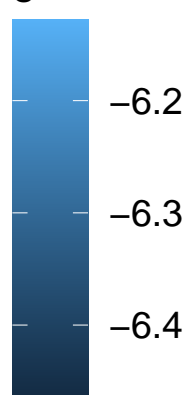
growth rate



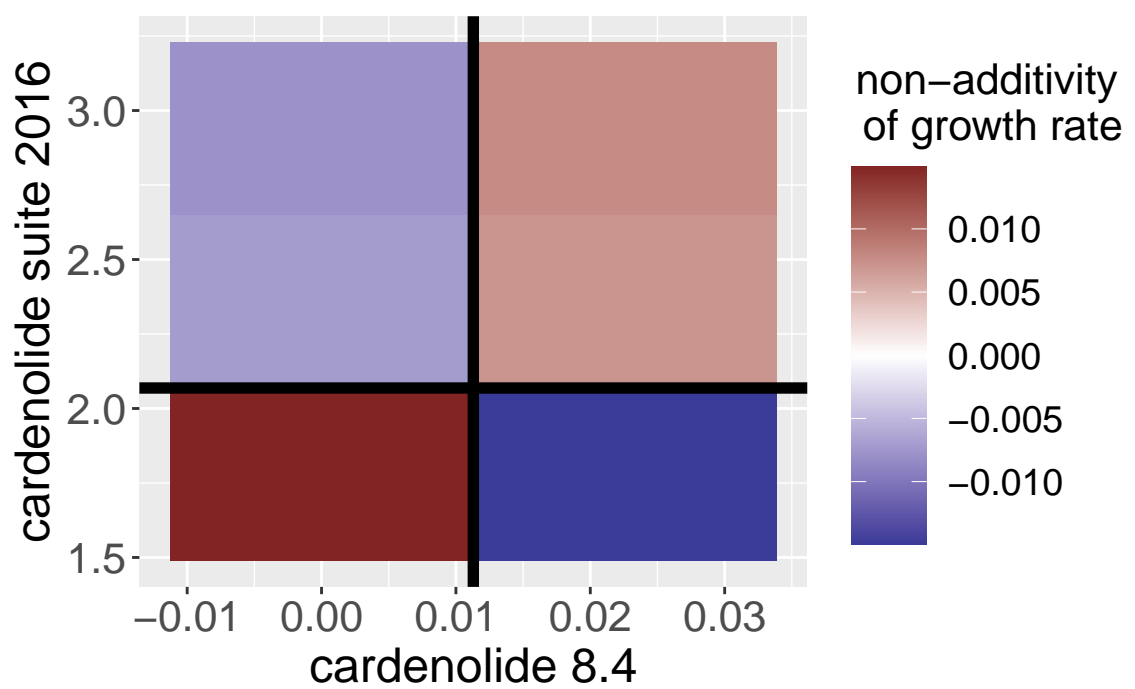
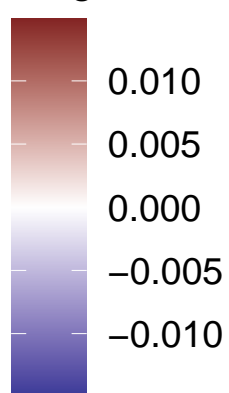
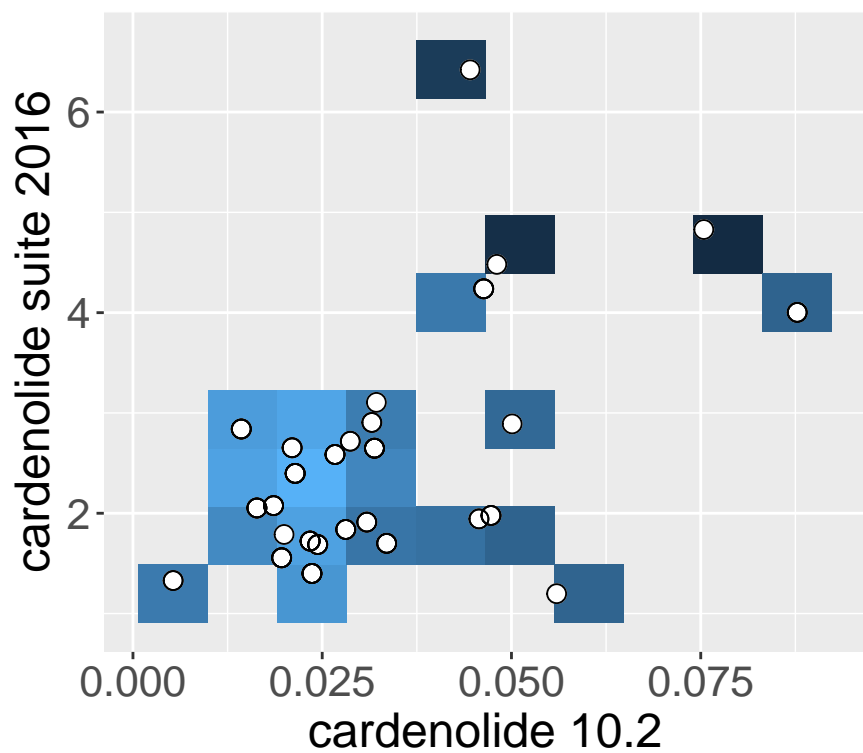
classification : unclear

 $\theta = -0.667$, null 95%: -1 -- 0.833 non-additivity
of growth rate**(ch)****Beetle Growth****Random Forest predictions**

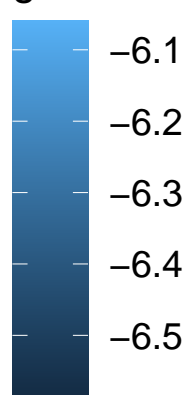
growth rate



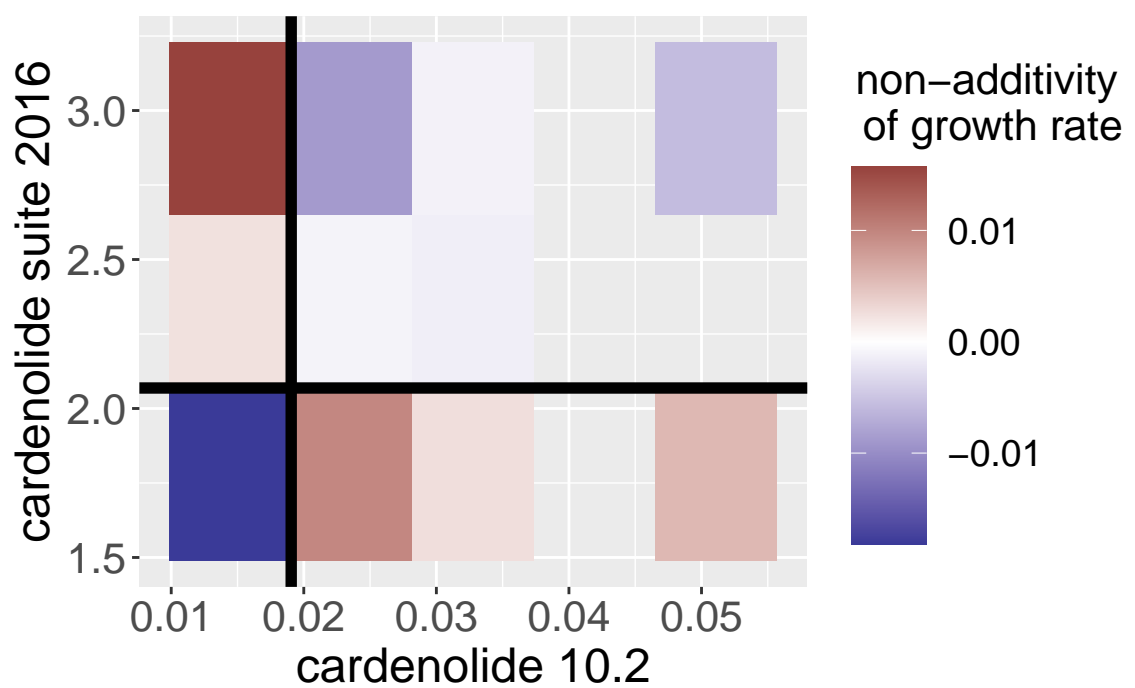
classification : unclear

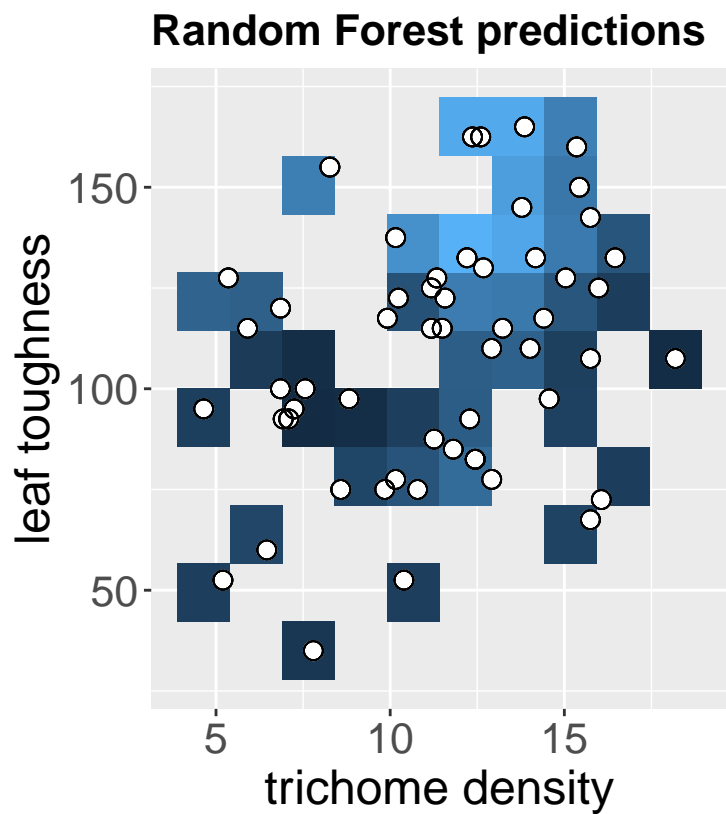
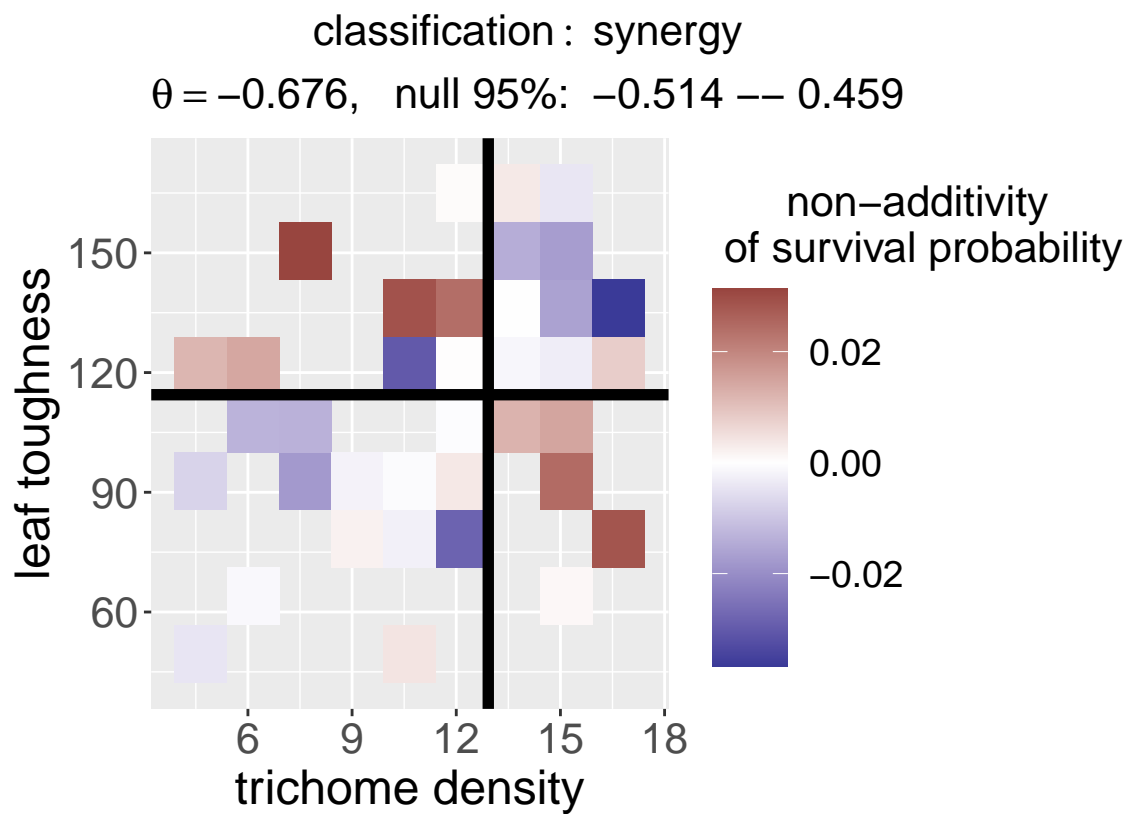
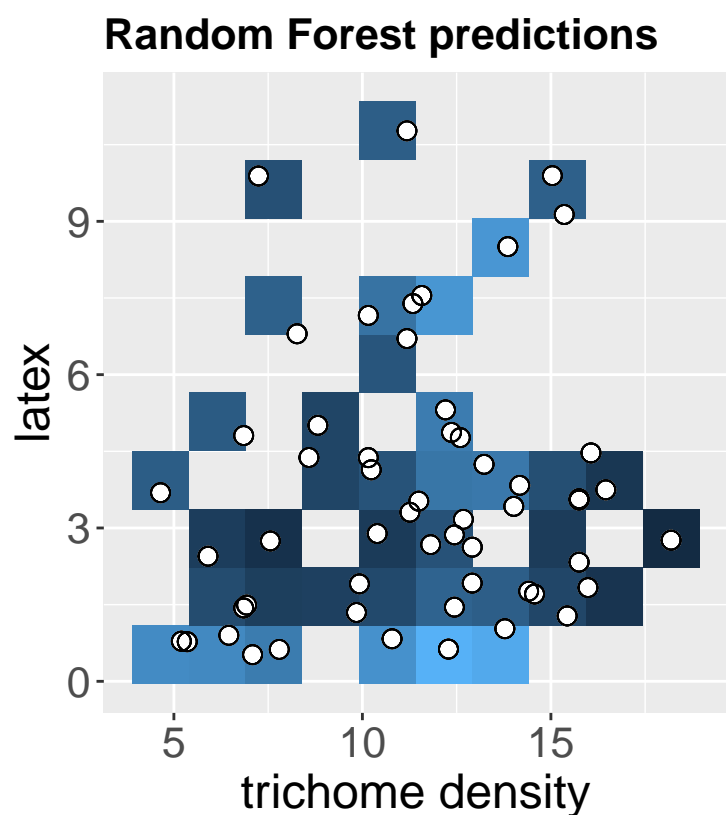
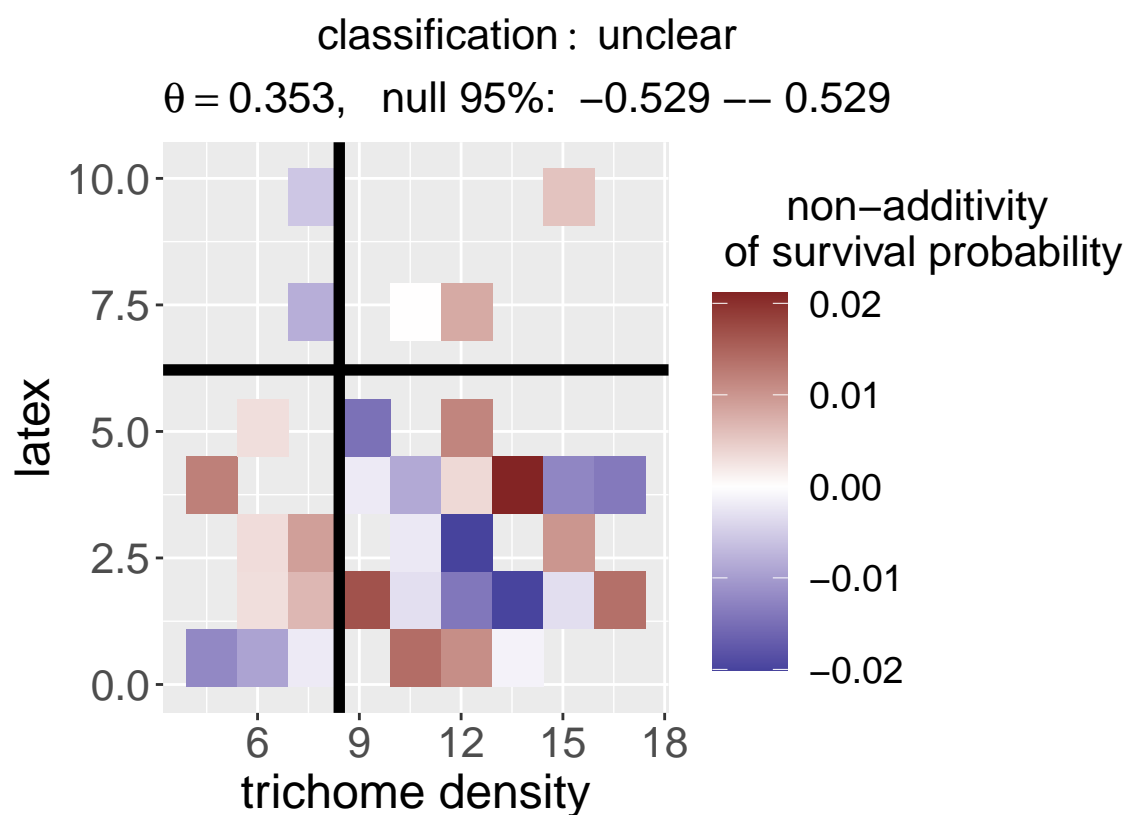
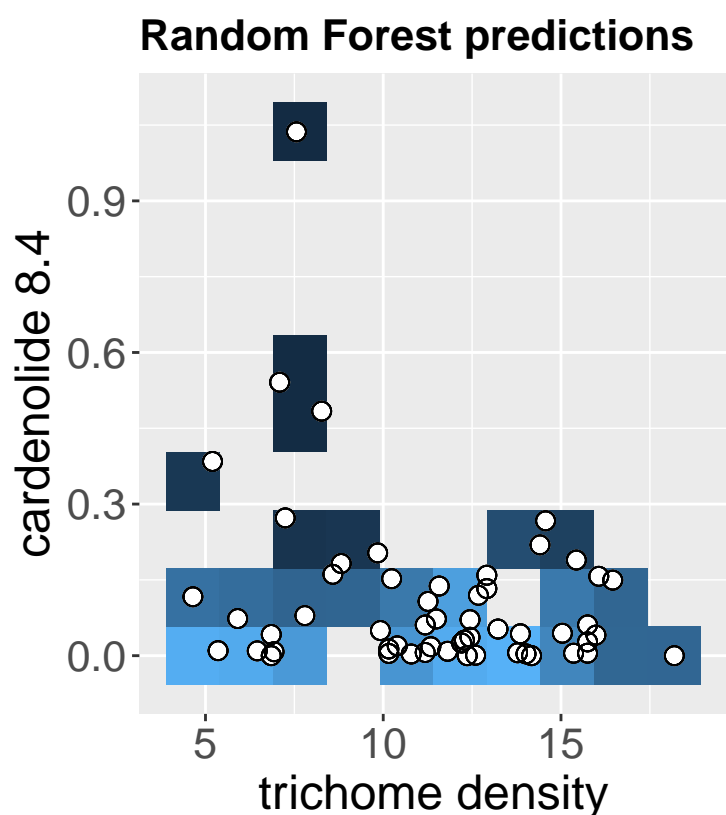
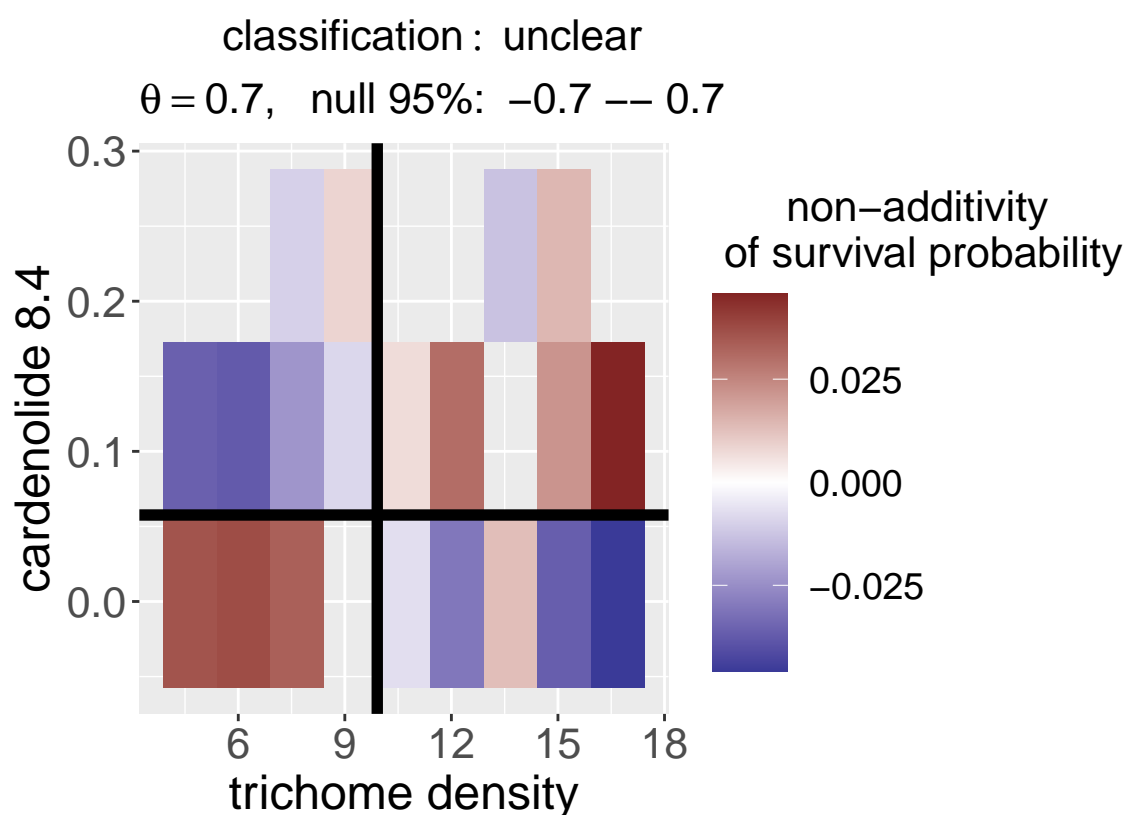
 $\theta = 1$, null 95%: -1 -- 1 non-additivity
of growth rate**(ci)****Beetle Growth****Random Forest predictions**

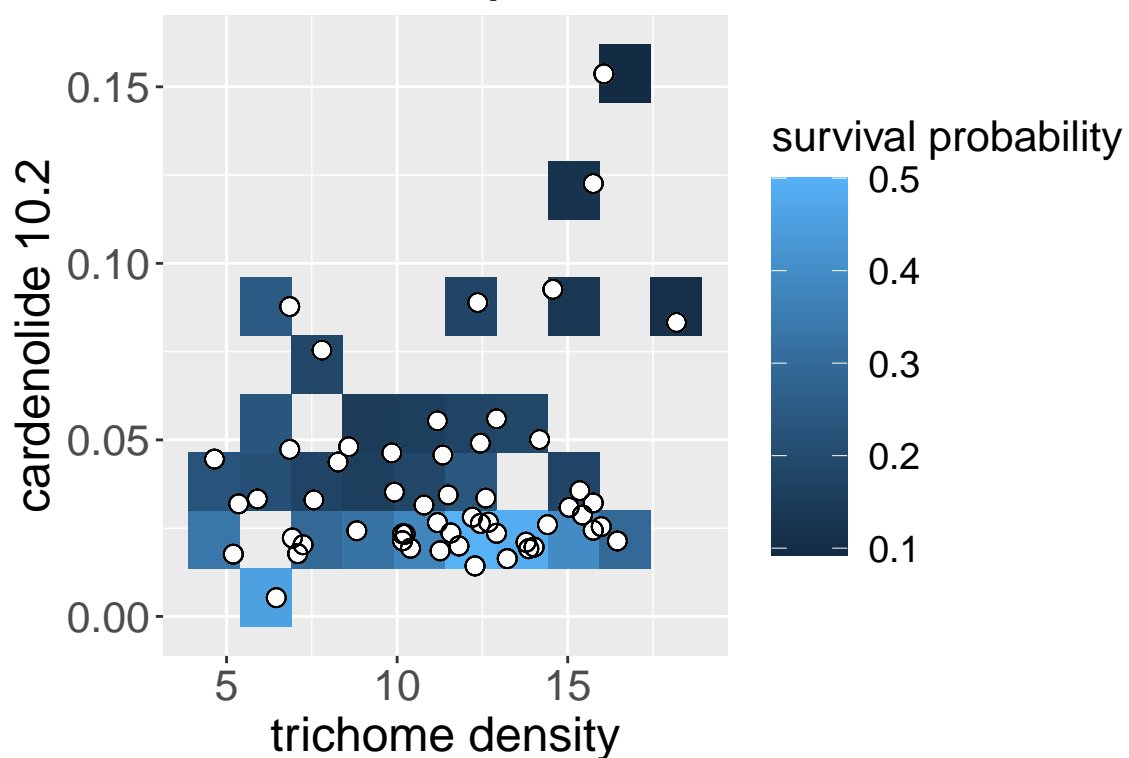
growth rate



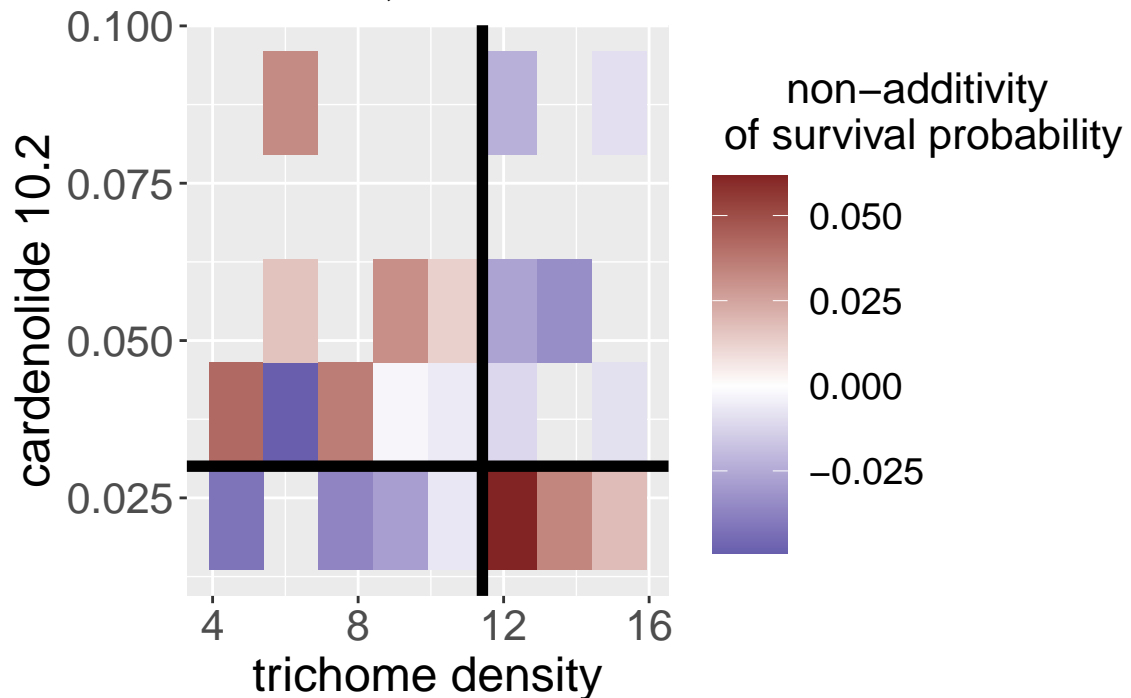
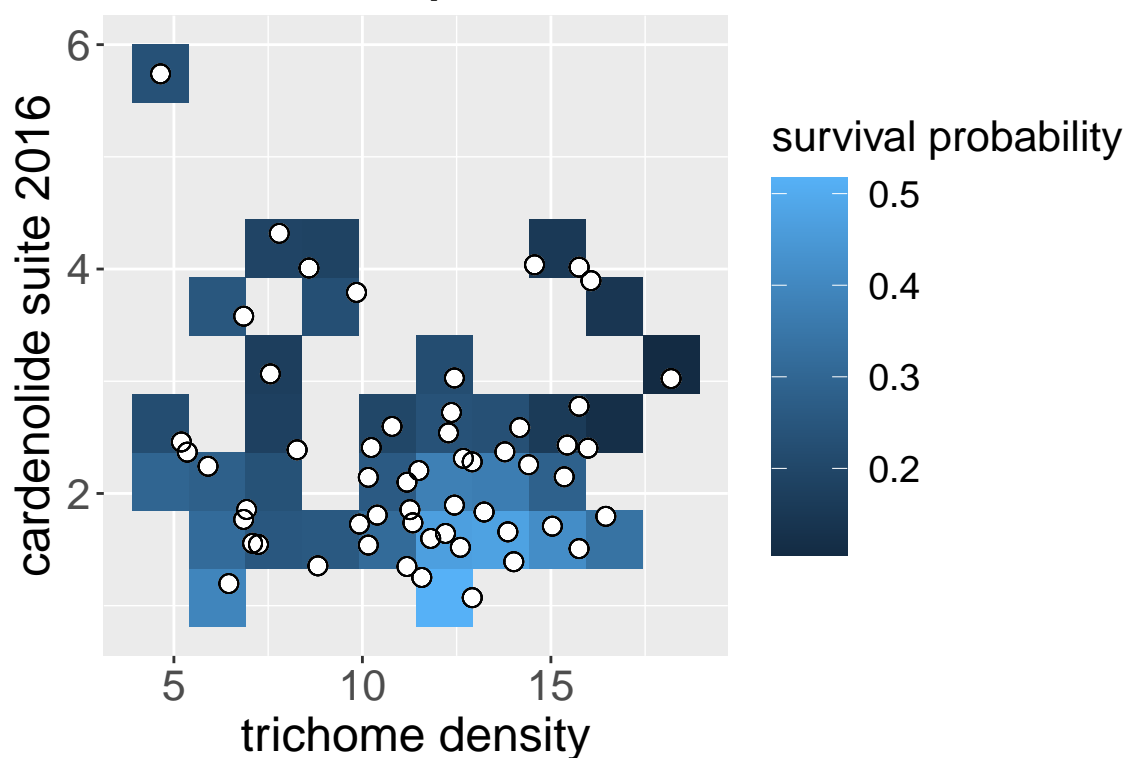
classification : synergy

 $\theta = -1$, null 95%: -0.818 -- 0.818 non-additivity
of growth rate

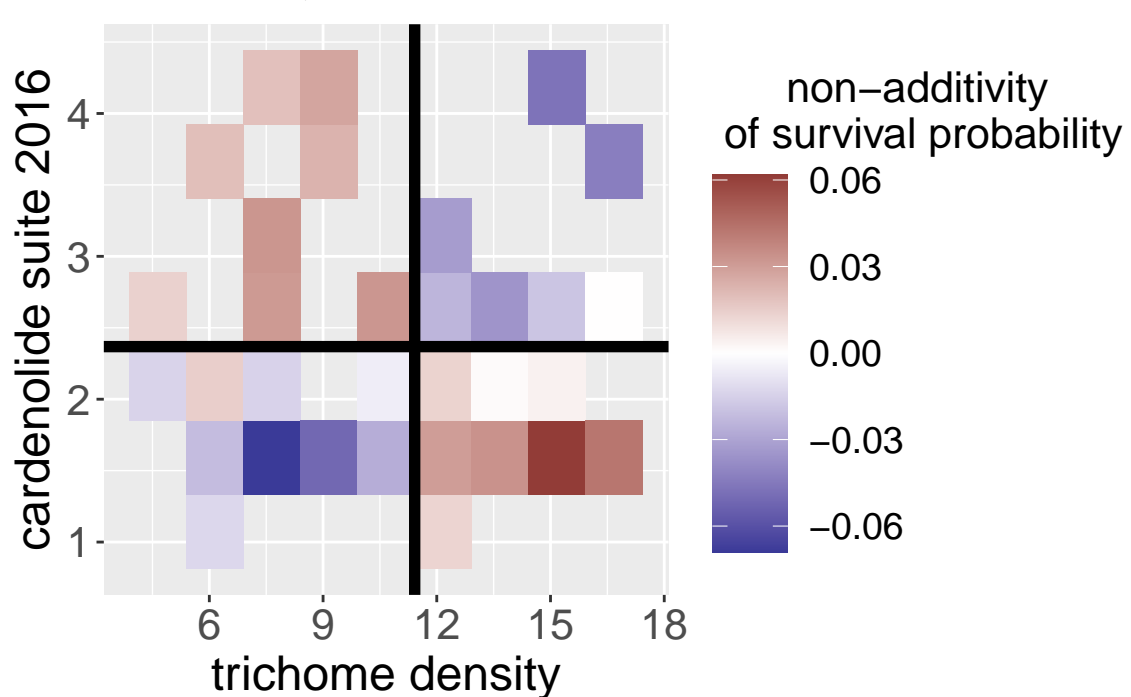
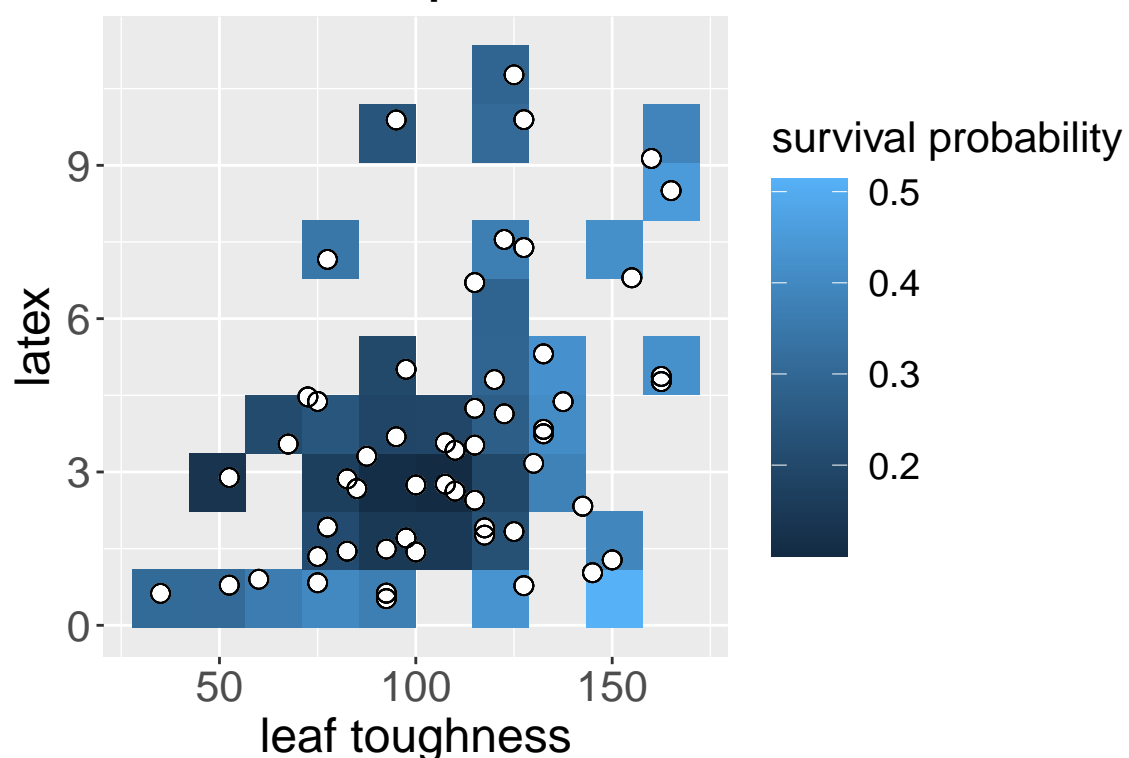
(cj)**Beetle Survival****(ck)****Beetle Survival****(cl)****Beetle Survival**

(cm)**Beetle Survival****Random Forest predictions**

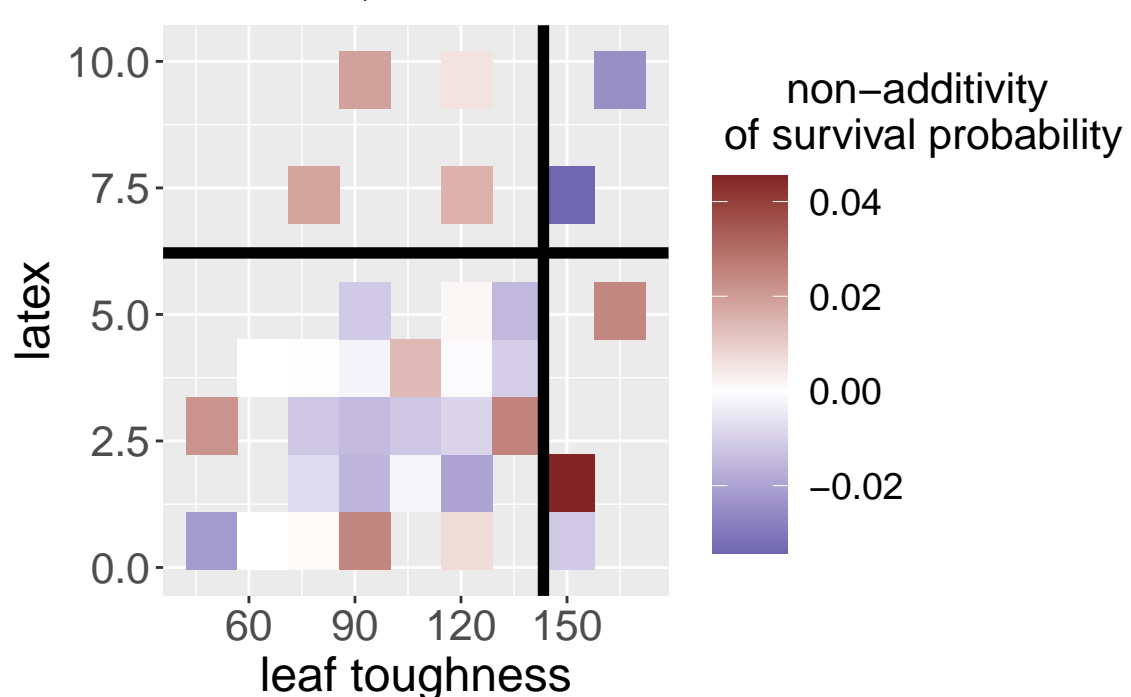
classification : synergy

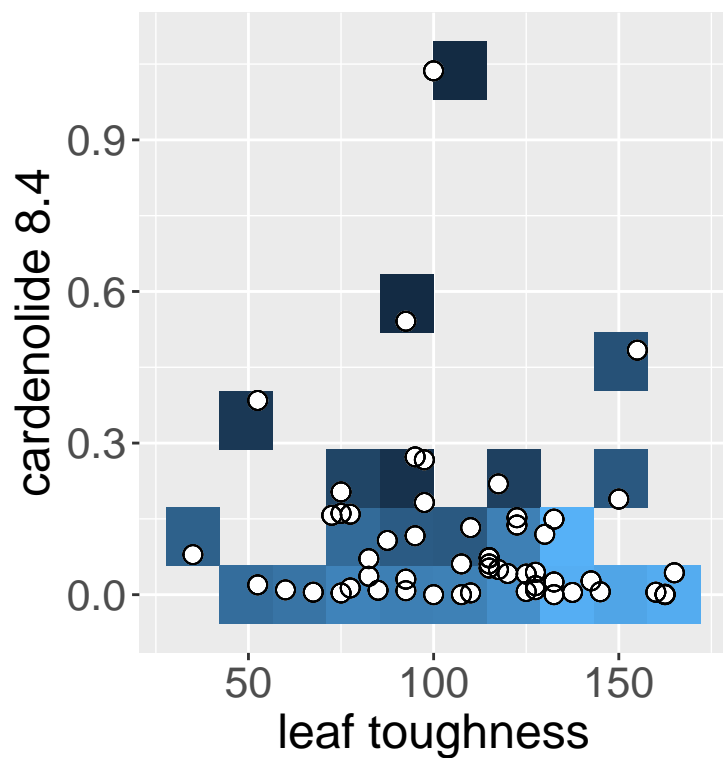
 $\theta = -0.727$, null 95%: -0.636 -- 0.636 **(cn)****Beetle Survival****Random Forest predictions**

classification : synergy

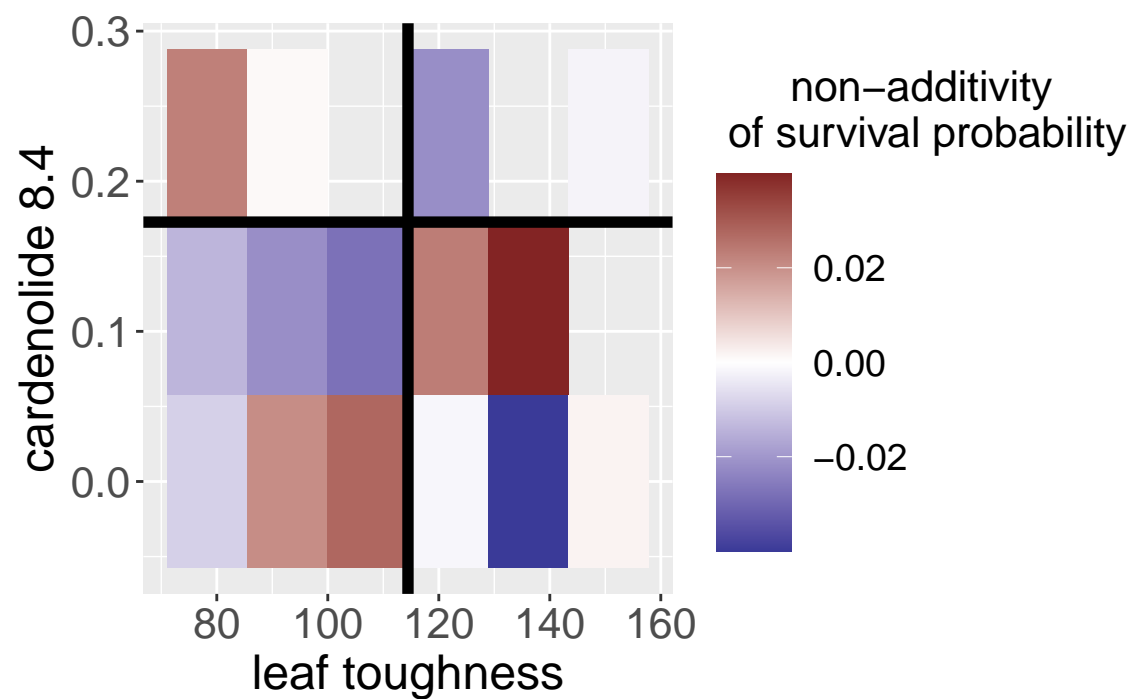
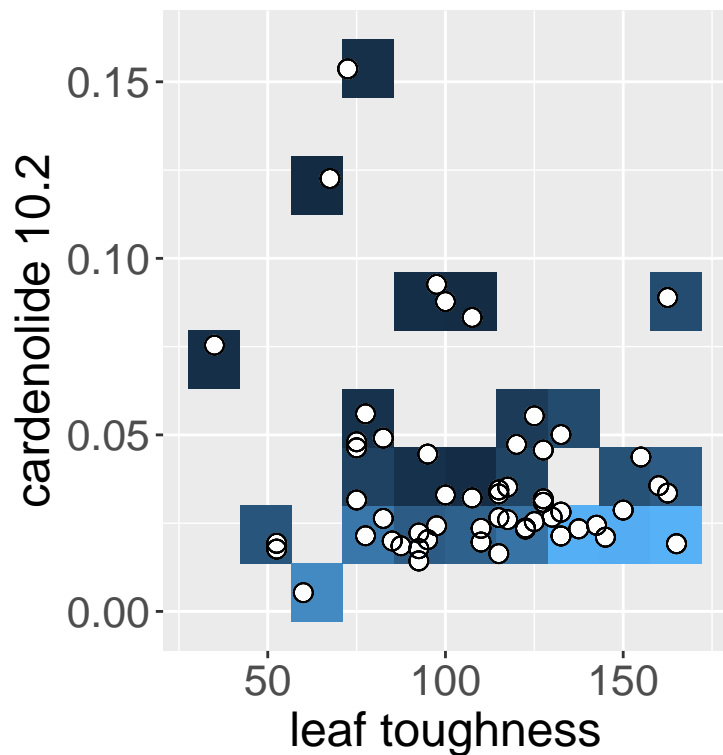
 $\theta = -0.875$, null 95%: -0.5 -- 0.5 **(co)****Beetle Survival****Random Forest predictions**

classification : unclear

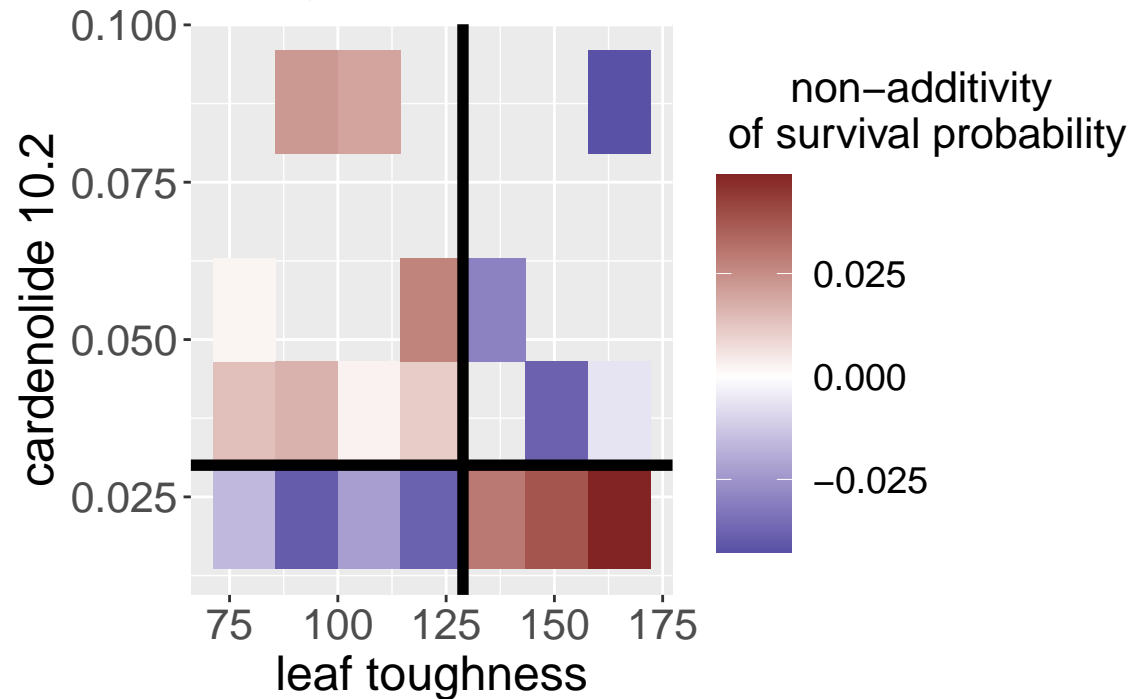
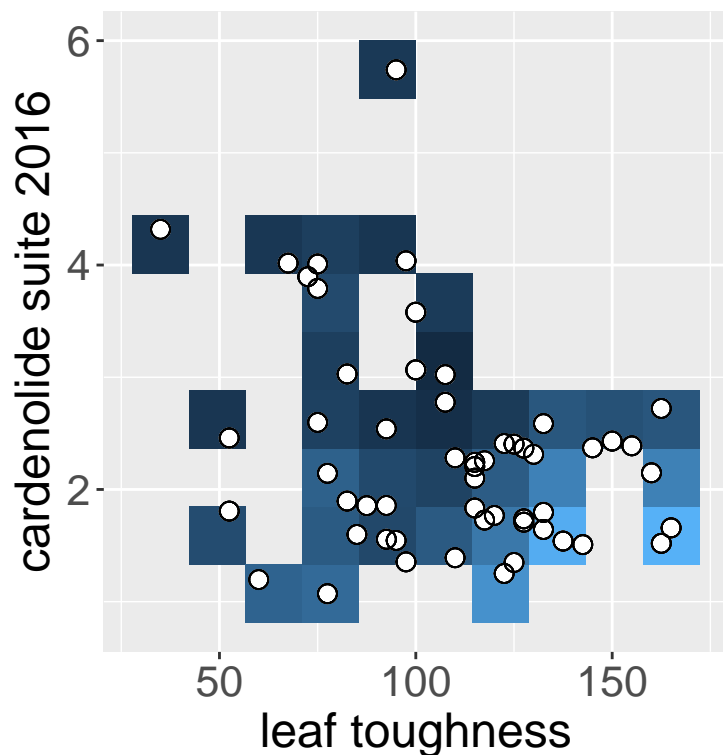
 $\theta = -0.455$, null 95%: -0.455 -- 0.455 

(cp)**Random Forest predictions****Beetle Survival**

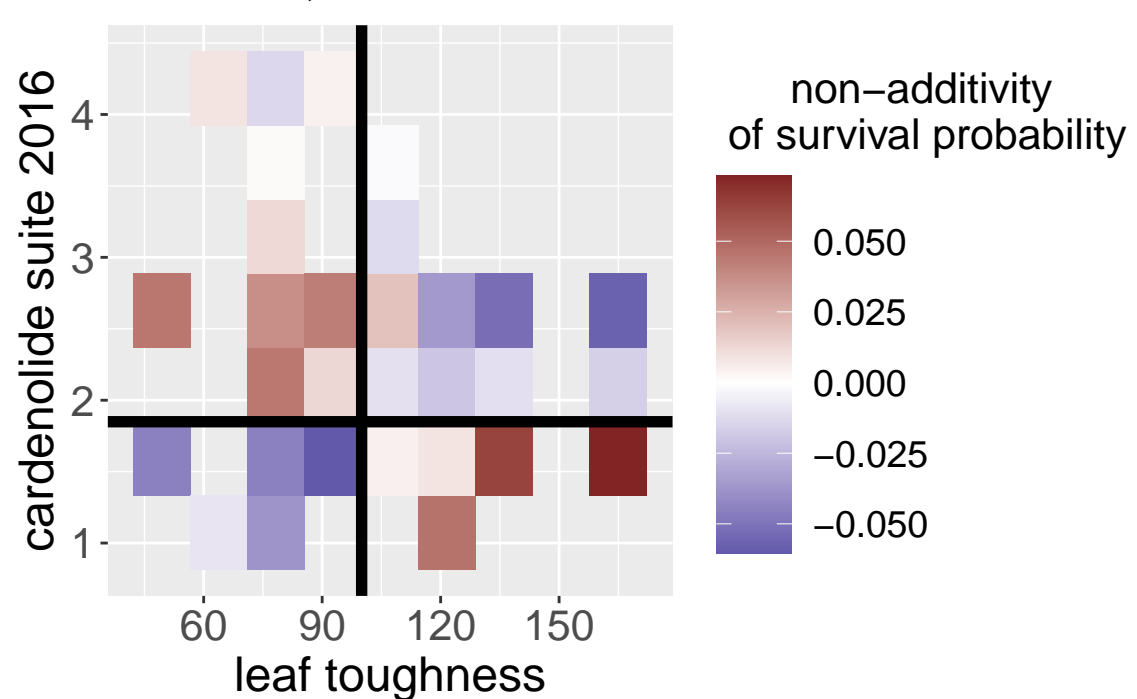
classification : unclear

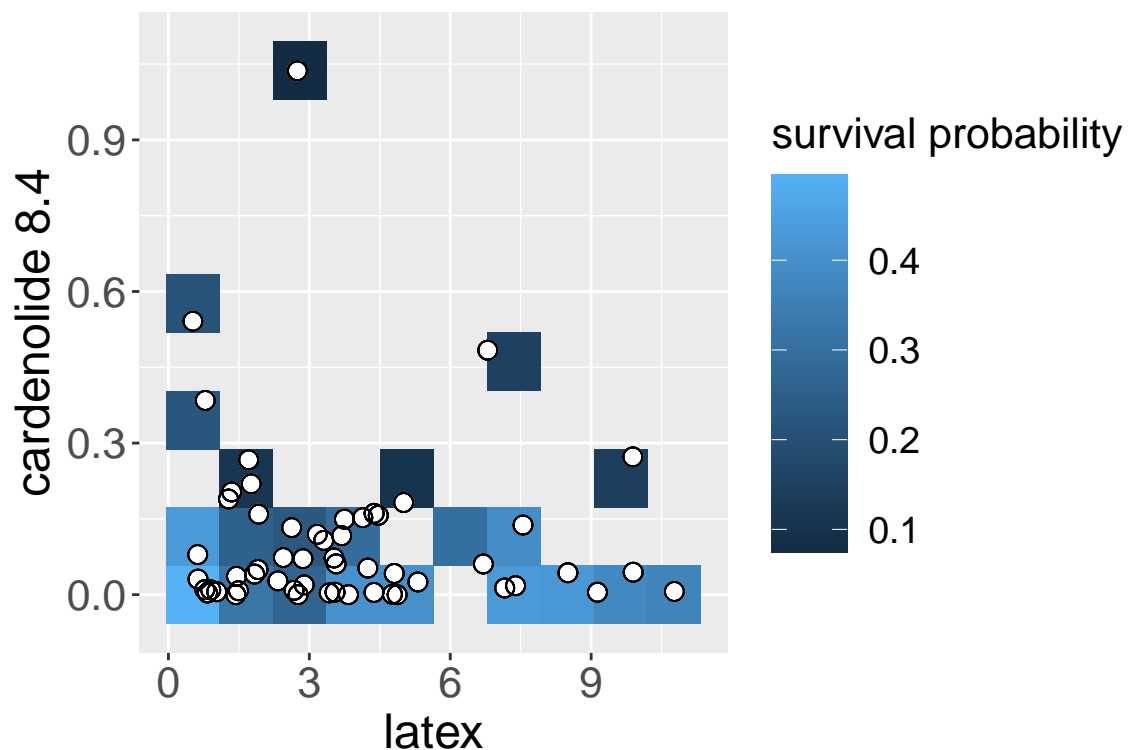
 $\theta = -0.467$, null 95%: -0.733 -- 0.733 **(cq)****Random Forest predictions****Beetle Survival**

classification : synergy

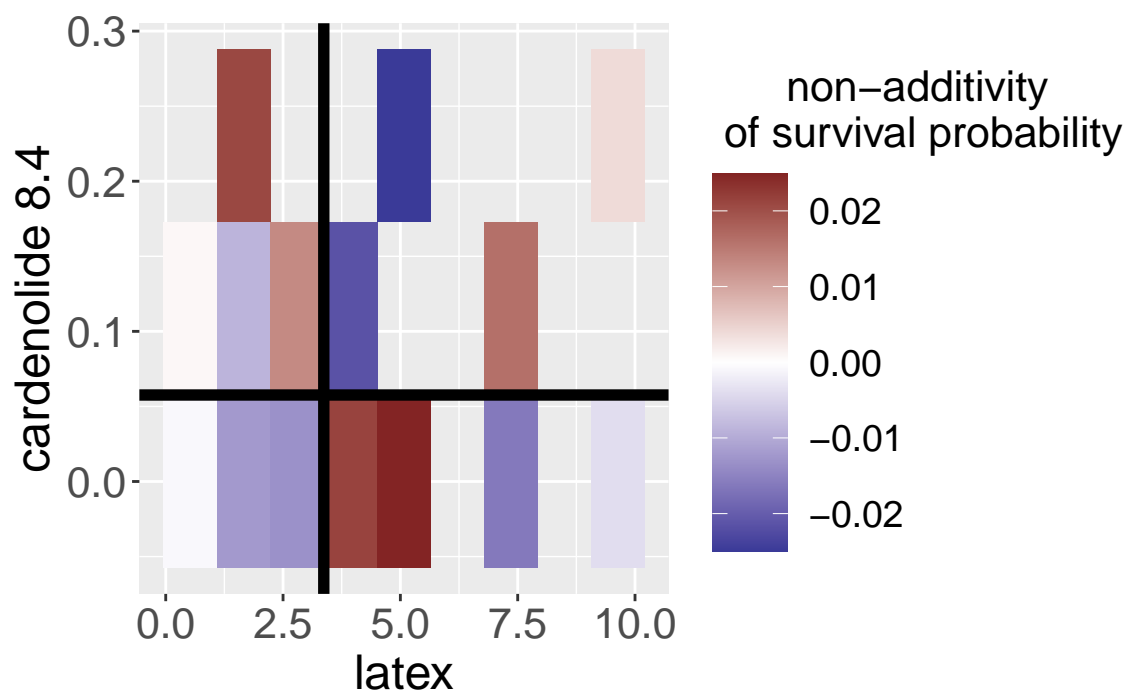
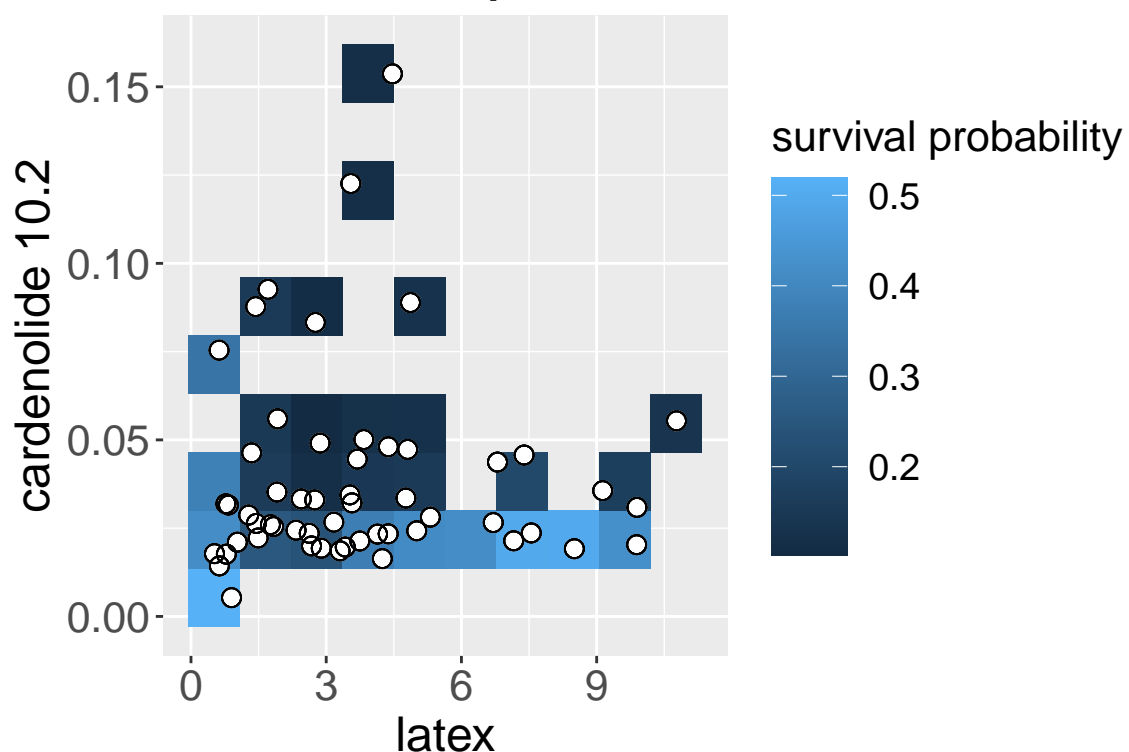
 $\theta = -1$, null 95%: -0.684 -- 0.684 **(cr)****Random Forest predictions****Beetle Survival**

classification : synergy

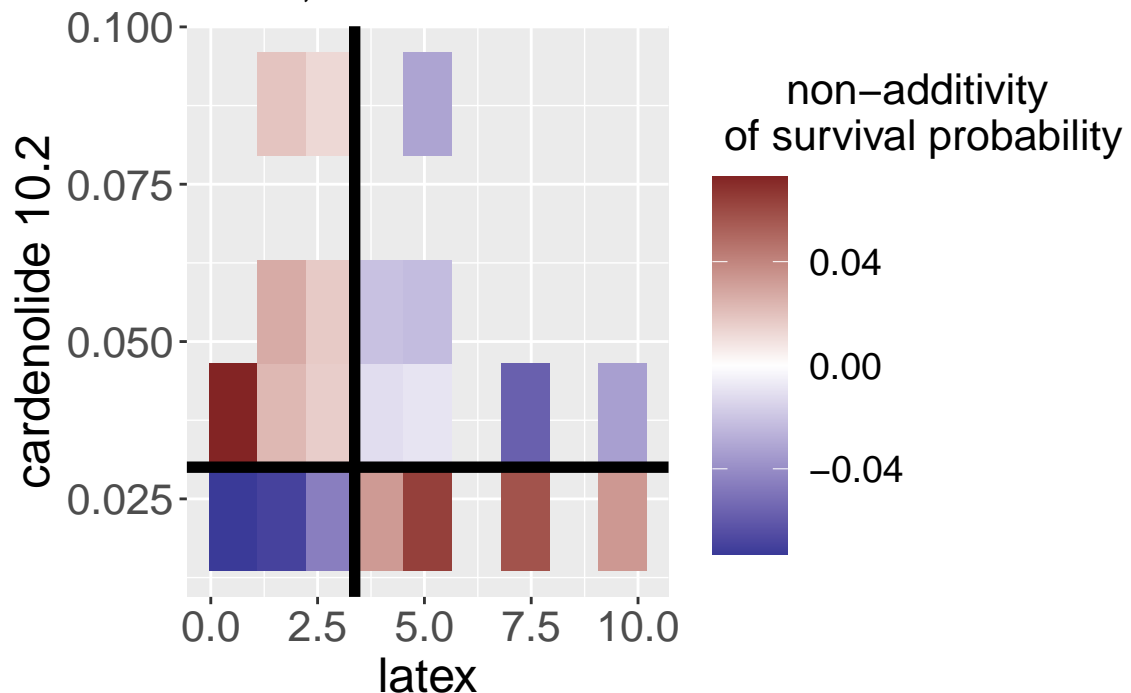
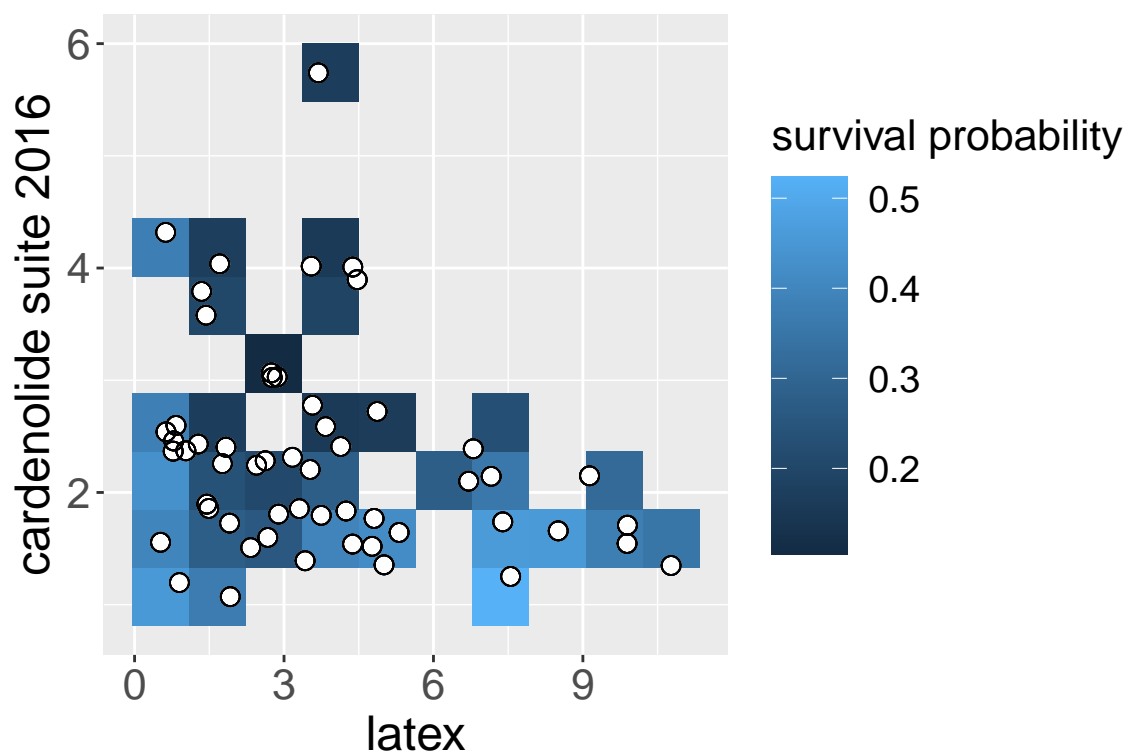
 $\theta = -0.867$, null 95%: -0.533 -- 0.533 

(cs)**Beetle Survival****Random Forest predictions**

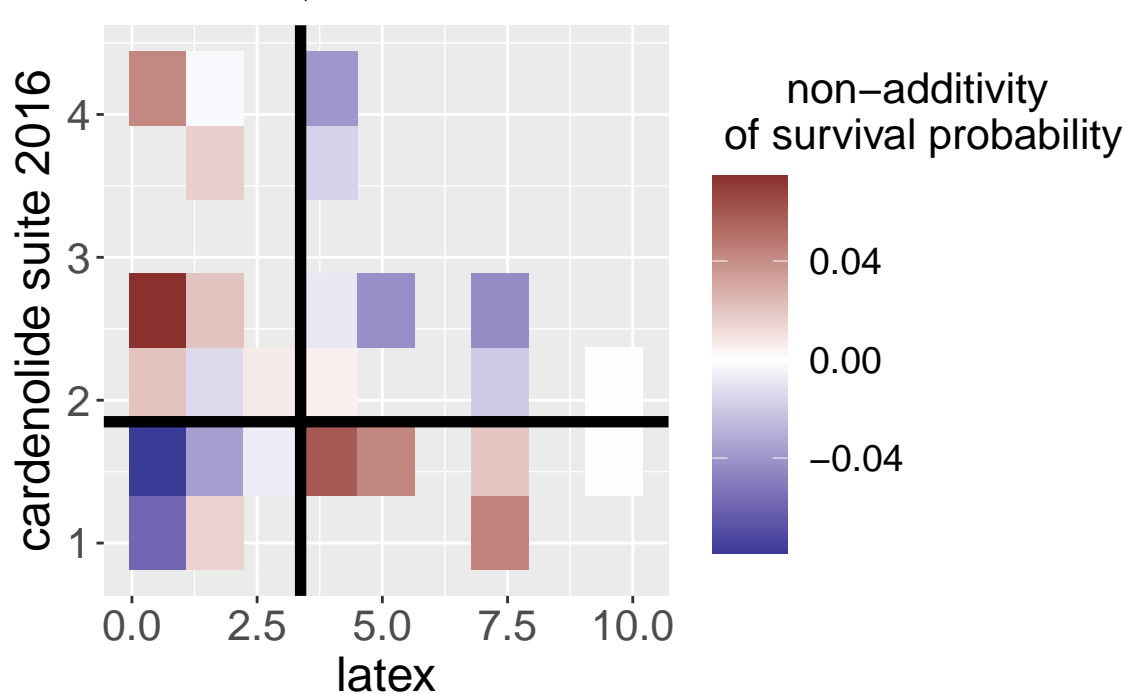
classification : unclear

 $\theta = -0.333$, null 95%: -0.74 -- 0.733 **(ct)****Beetle Survival****Random Forest predictions**

classification : synergy

 $\theta = -1$, null 95%: -0.619 -- 0.619 **(cu)****Beetle Survival****Random Forest predictions**

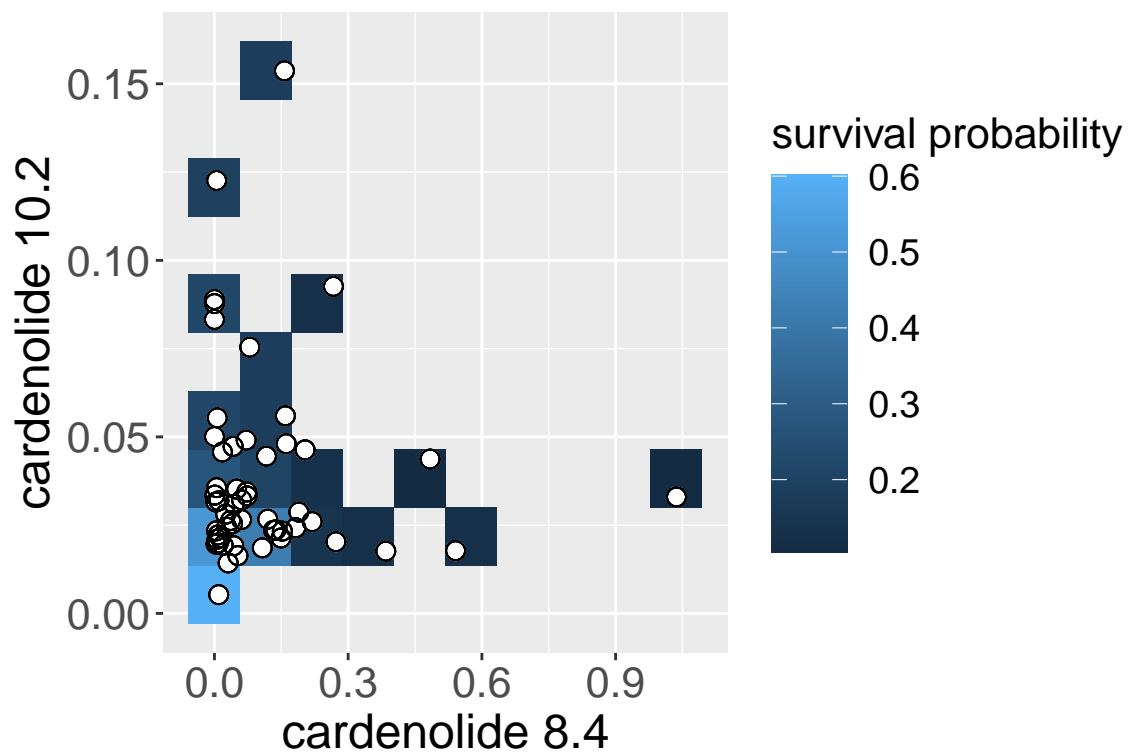
classification : synergy

 $\theta = -0.692$, null 95%: -0.538 -- 0.538 

(cv)

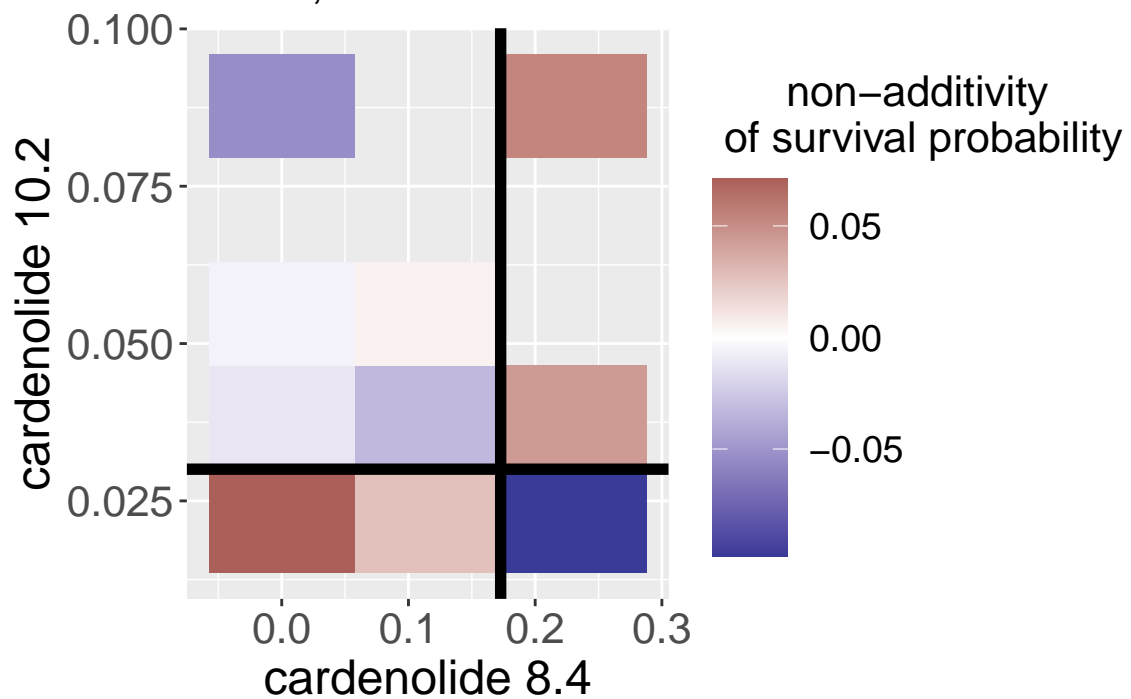
Beetle Survival

Random Forest predictions



classification : unclear

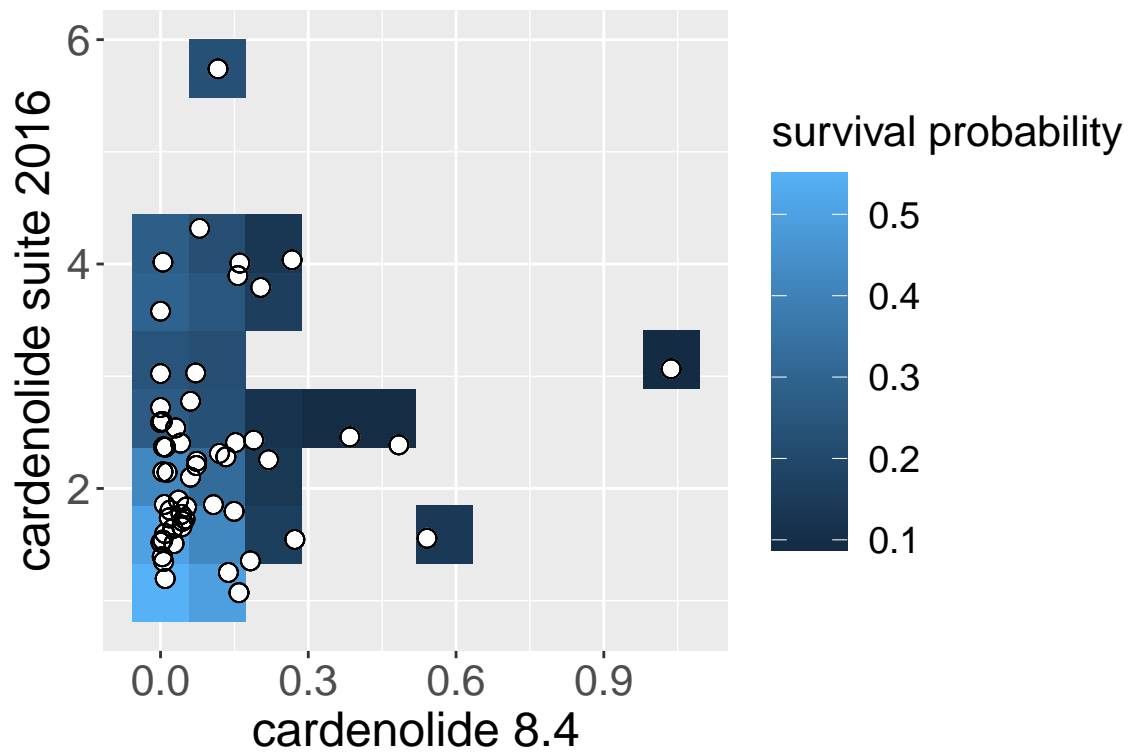
$\theta = 0.8$, null 95%: -0.8 -- 1



(cw)

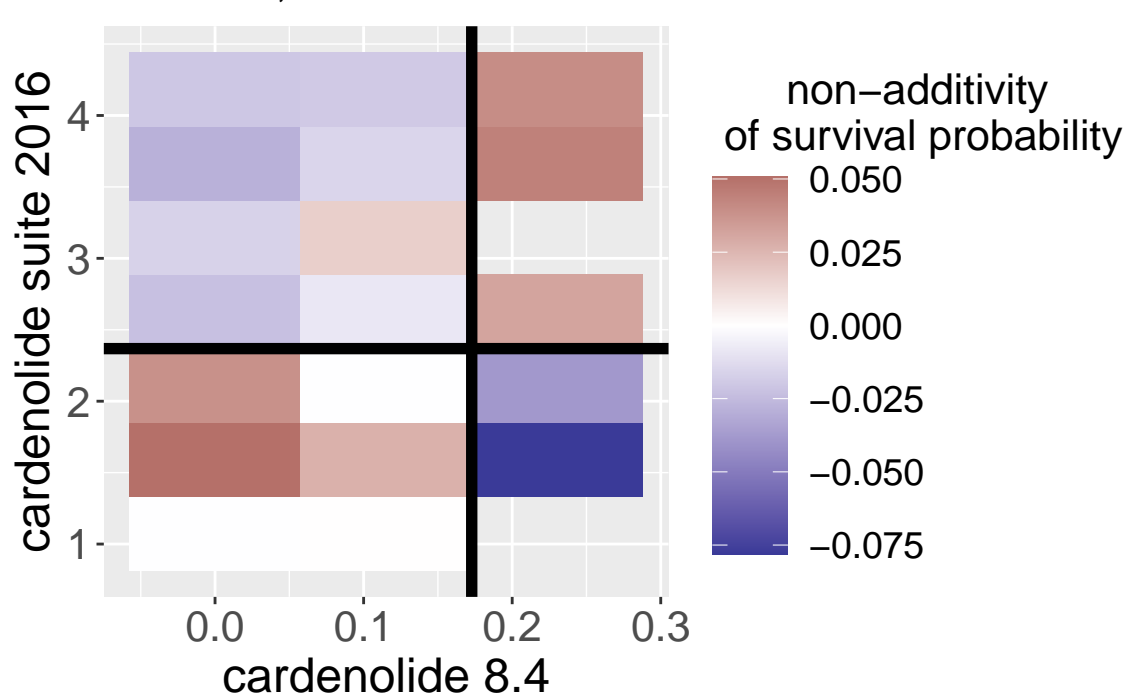
Beetle Survival

Random Forest predictions



classification : unclear

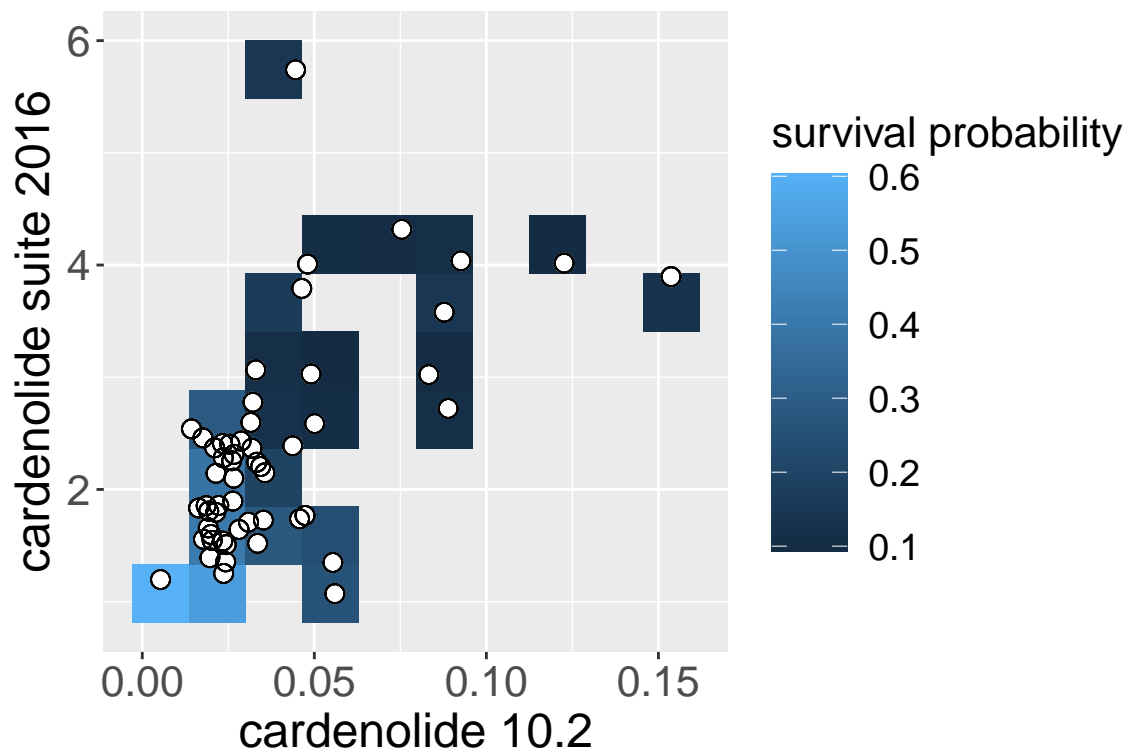
$\theta = 0.684$, null 95%: -0.684 -- 0.684



(cx)

Beetle Survival

Random Forest predictions



classification : unclear

$\theta = -0.333$, null 95%: -0.667 -- 0.556

