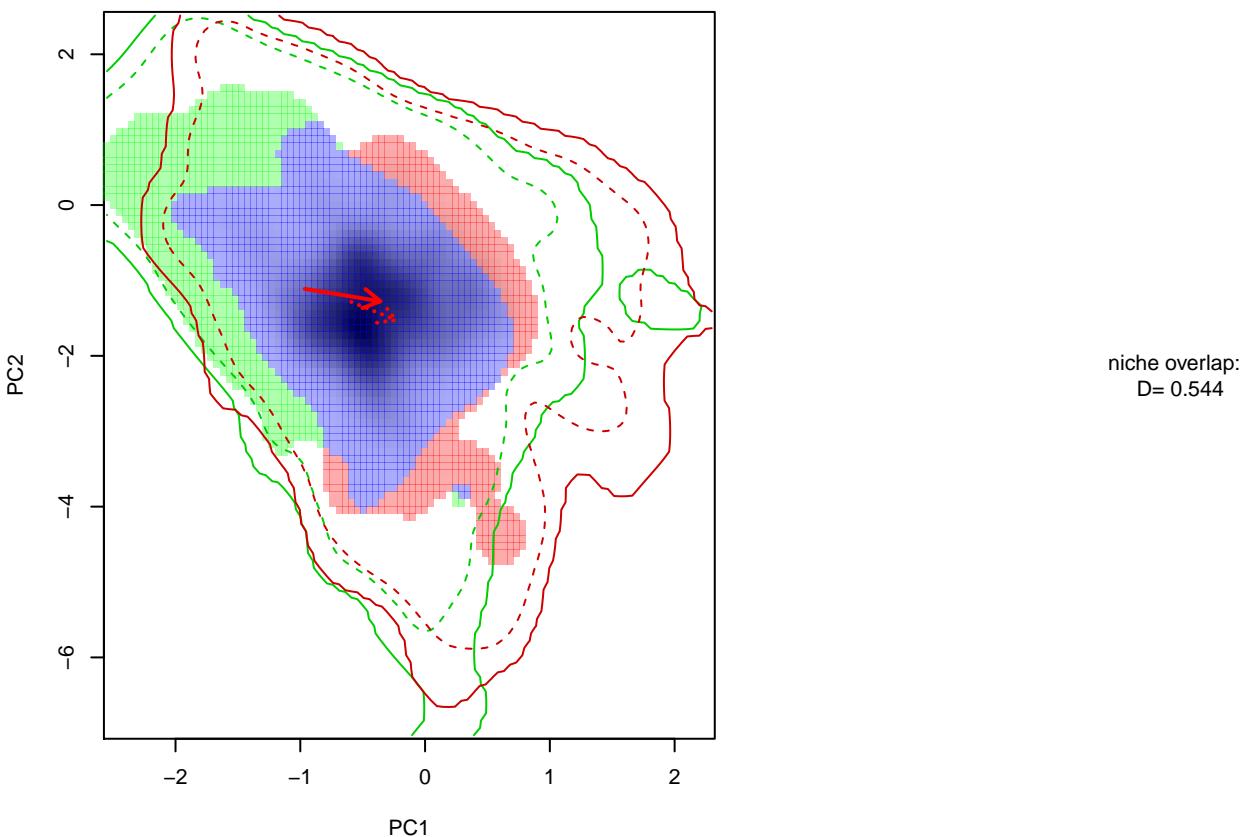
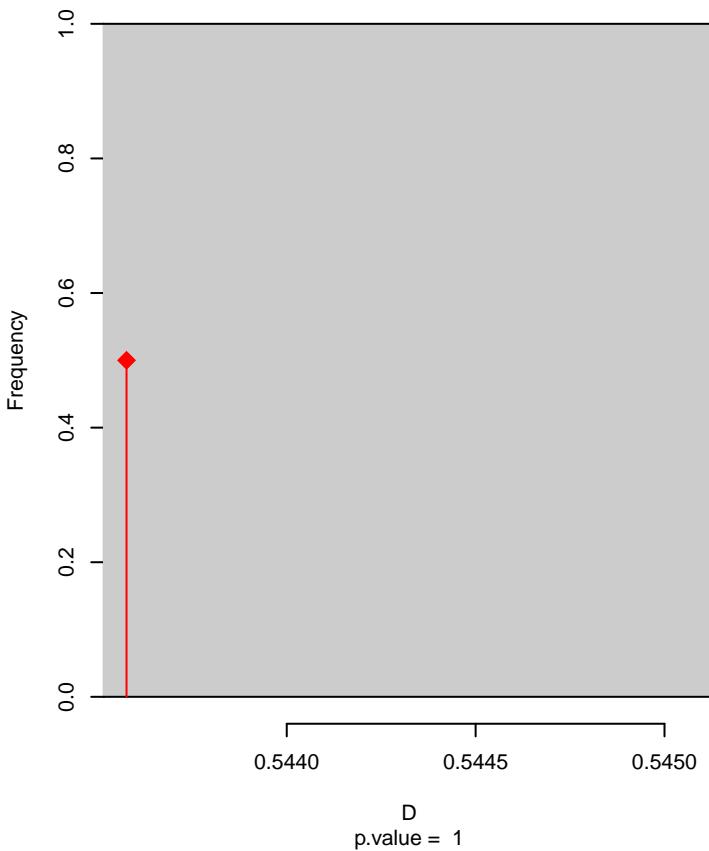


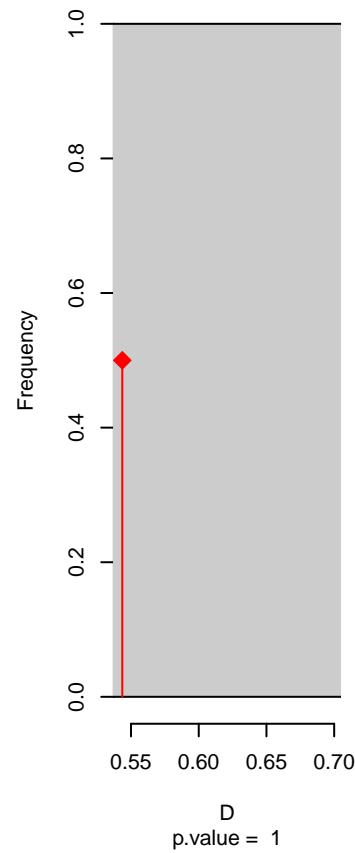
### *Alopochelidon\_fucata* seasonal overlap



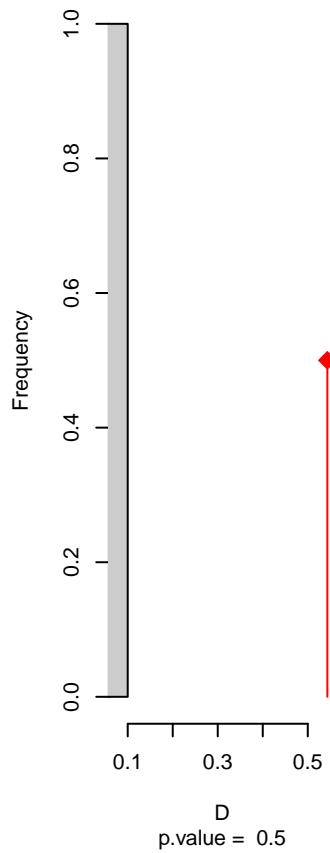
**Equivalency**



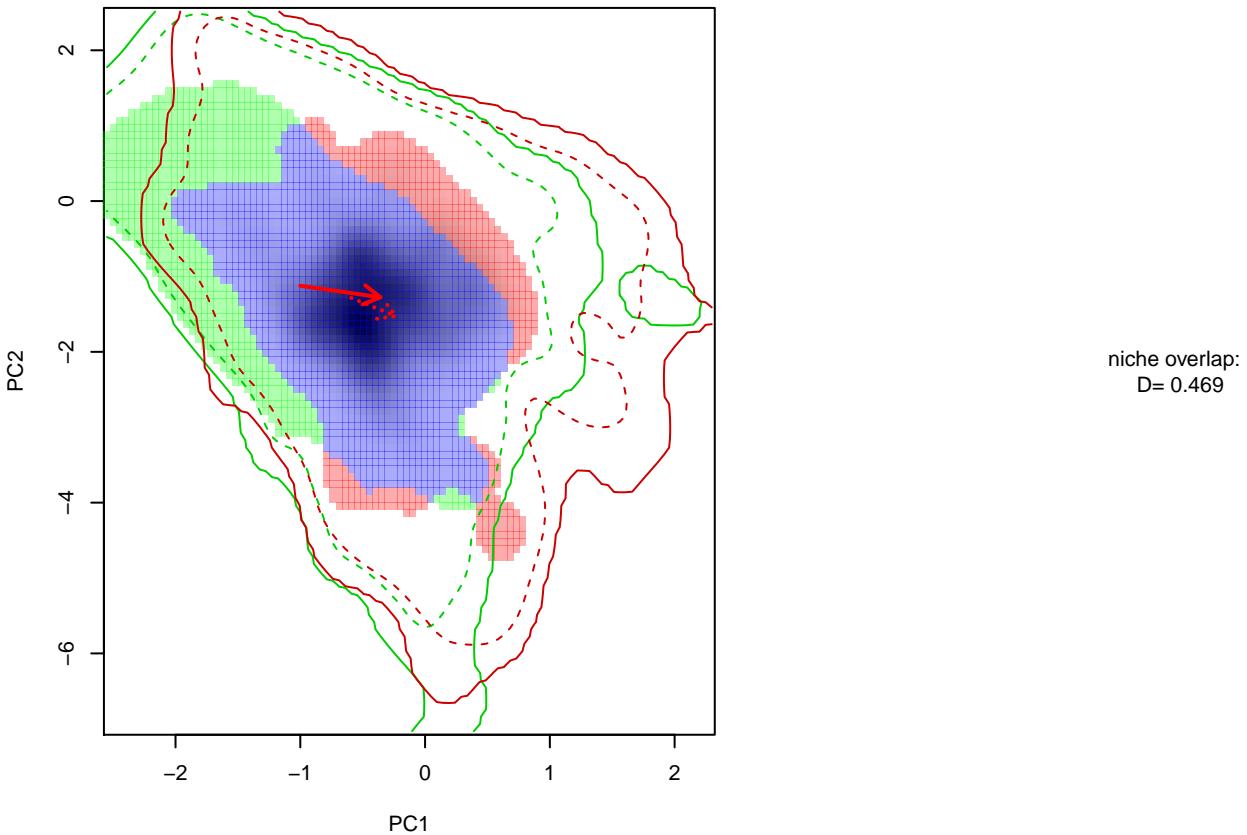
**Similarity 2→1**



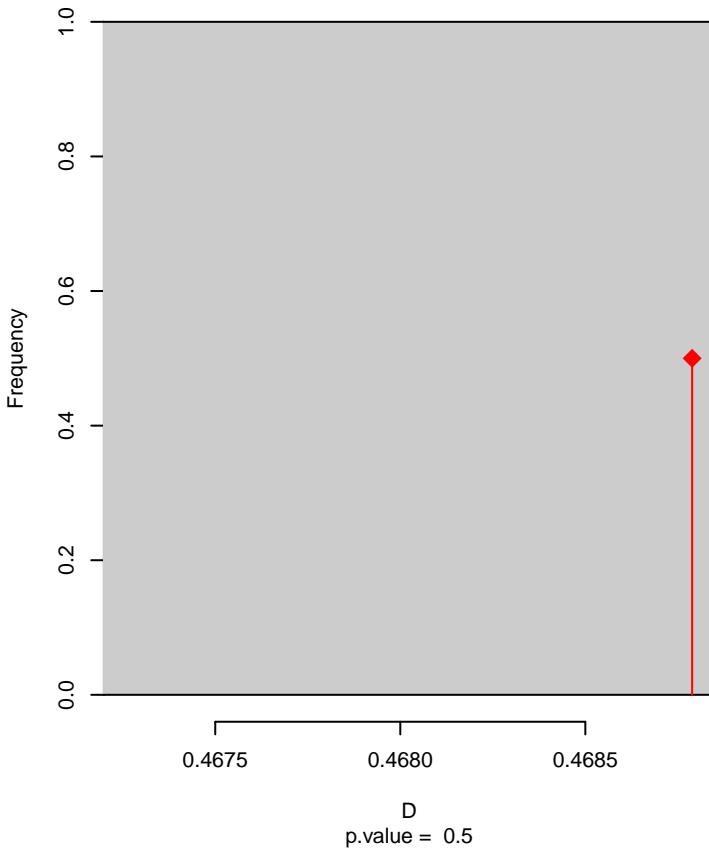
**Similarity 1→2**



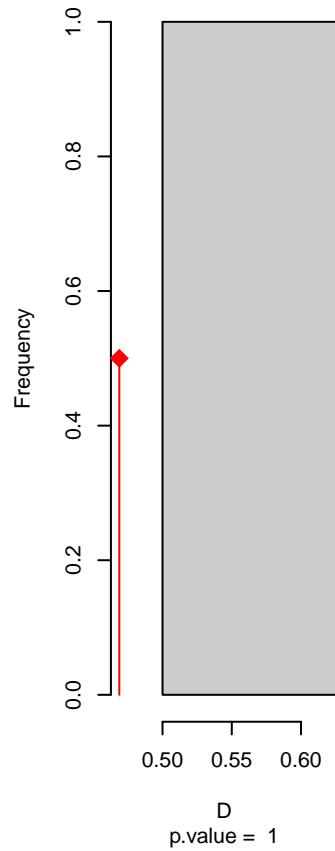
# *Alopochelidon\_fucata* seasonal overlap-hypo.br



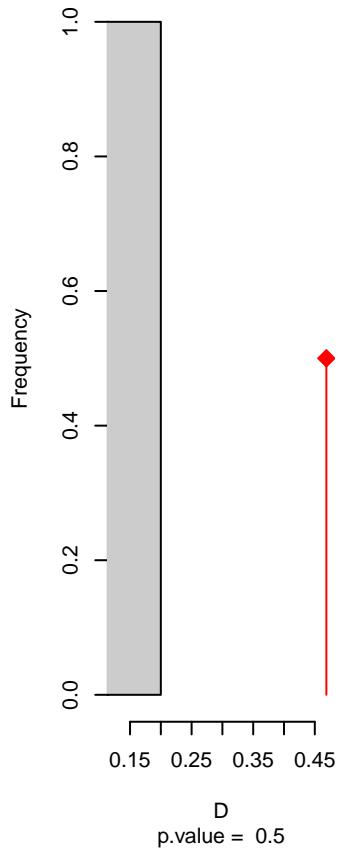
**Equivalency**



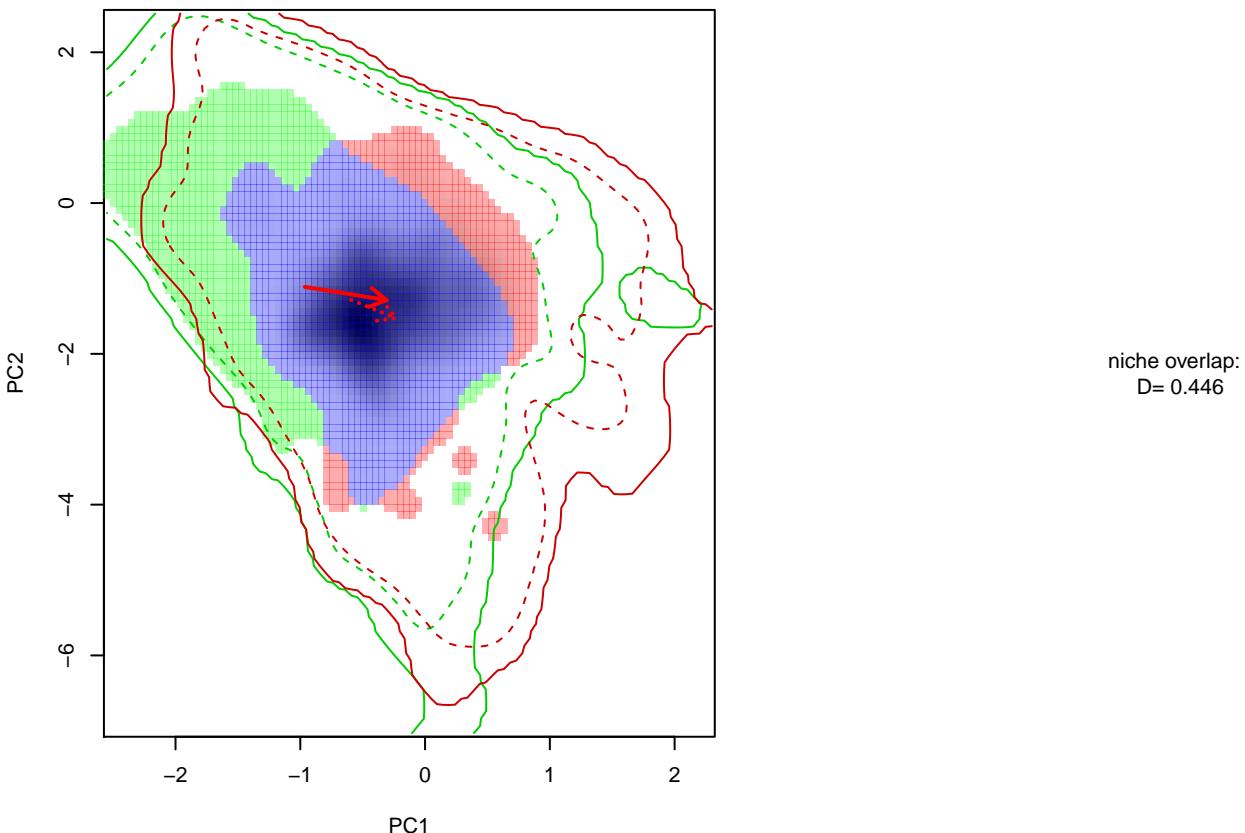
**Similarity 2→1**



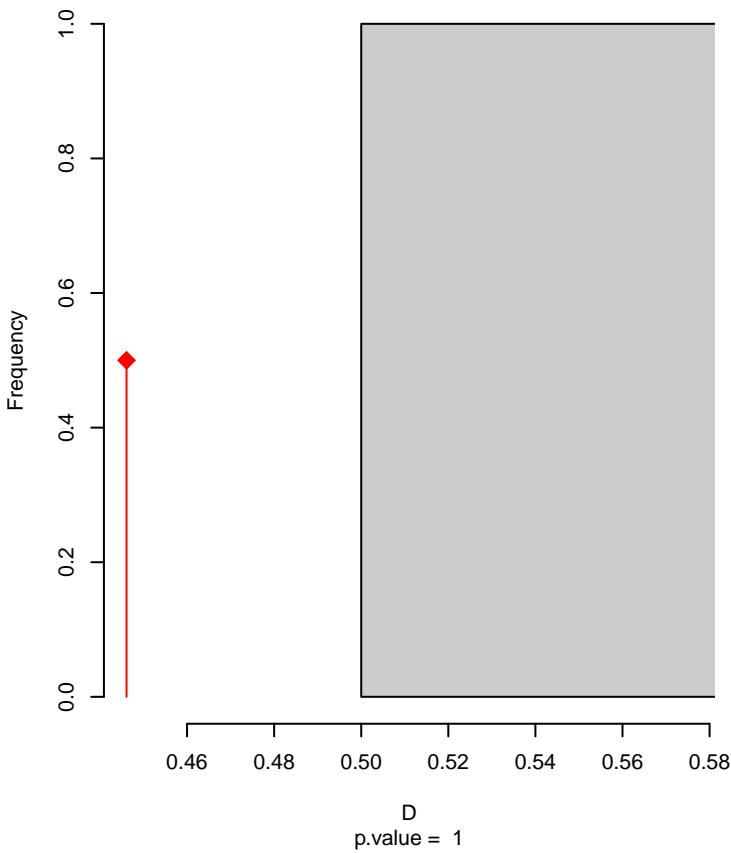
**Similarity 1→2**



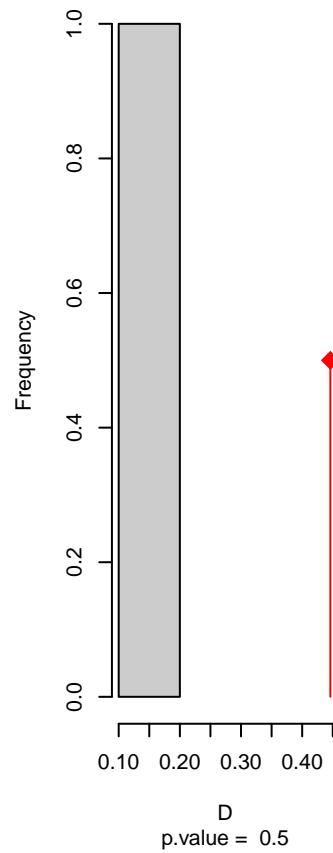
# *Alopochelidon fucata* seasonal overlap-hypo wi



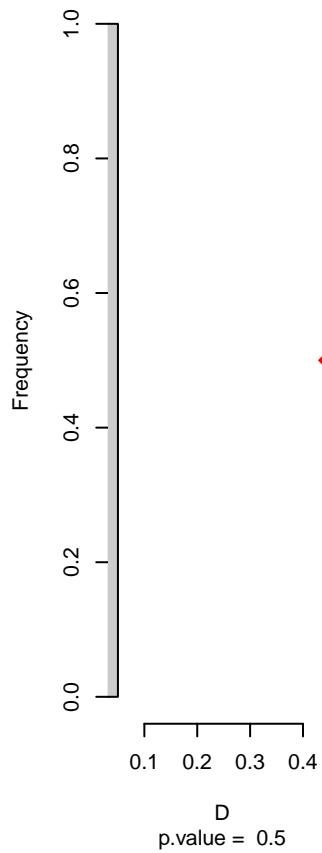
Equivalency



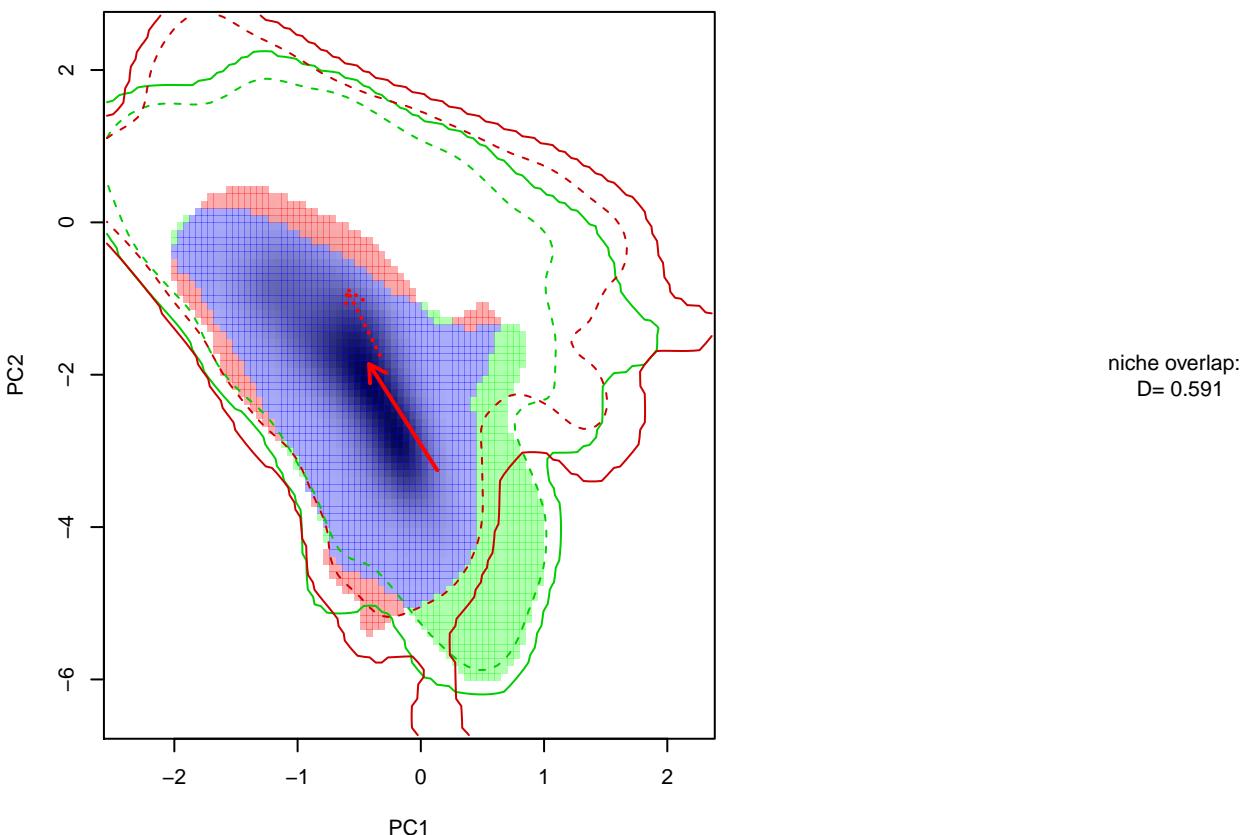
Similarity 2→1



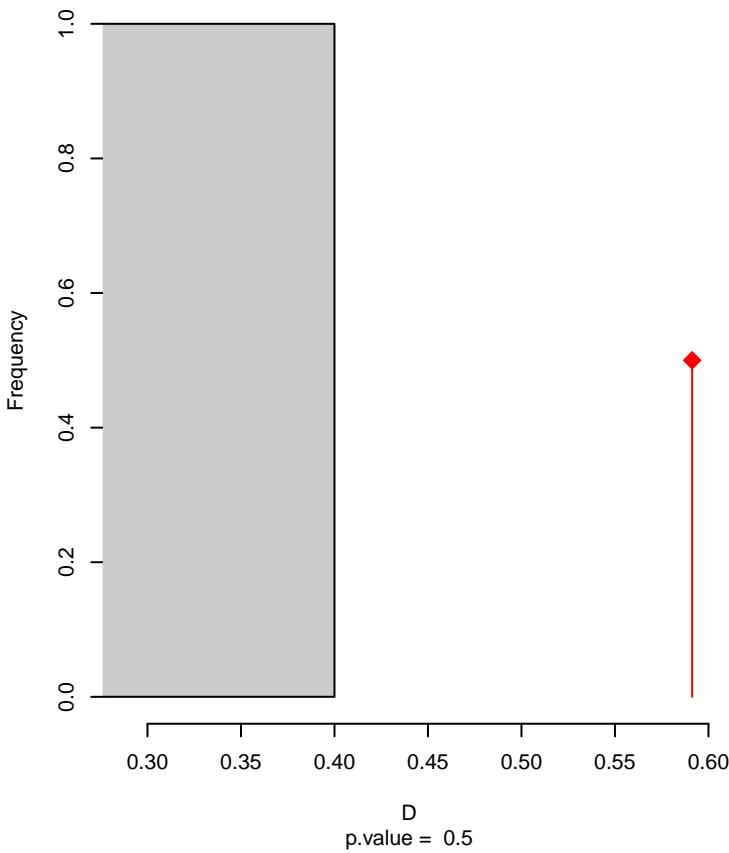
Similarity 1→2



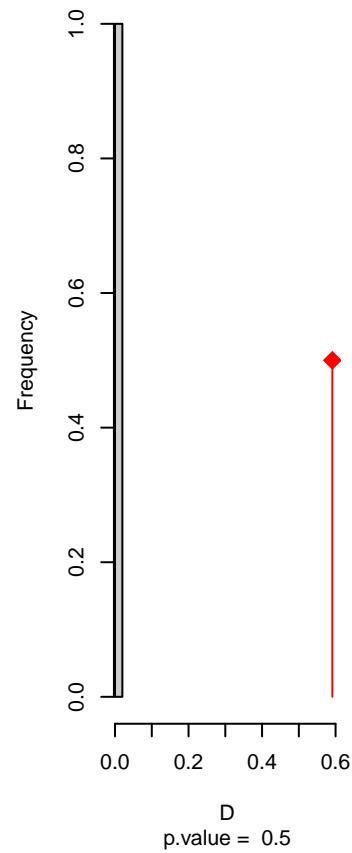
### Atticora\_fasciata seasonal overlap



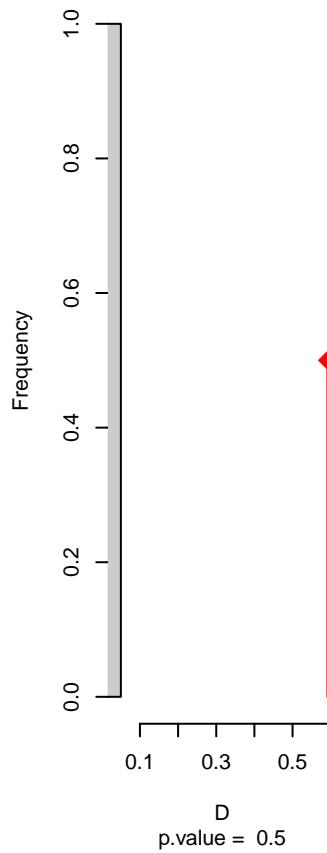
**Equivalency**



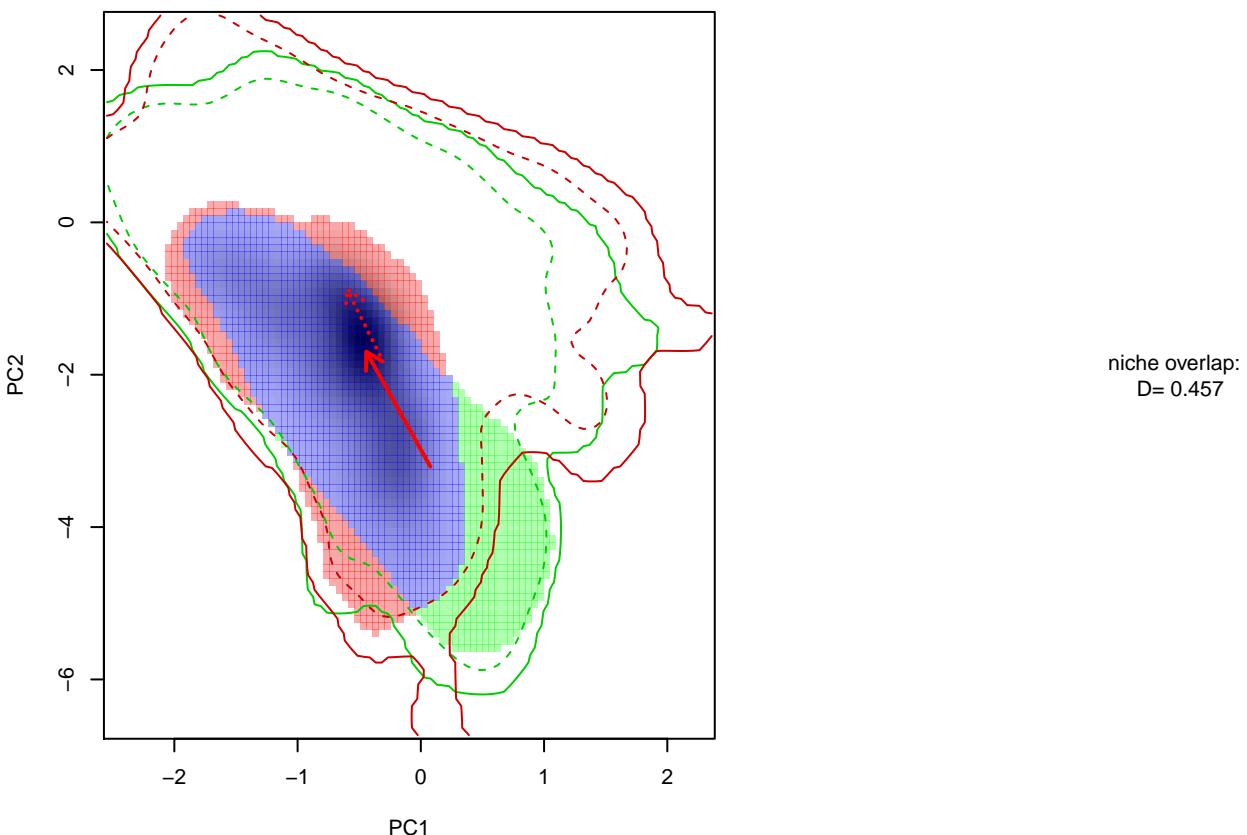
**Similarity 2→1**



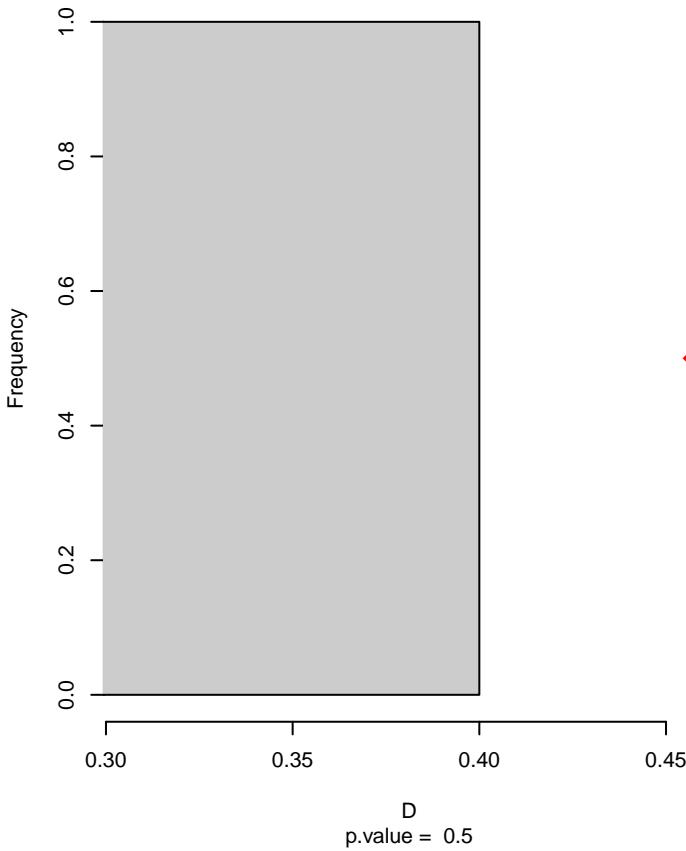
**Similarity 1→2**



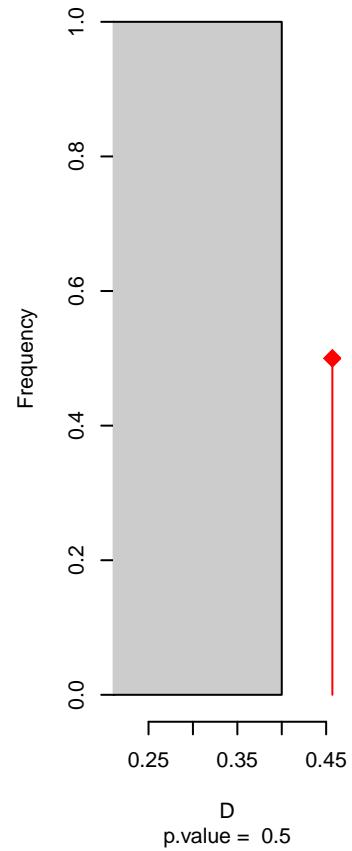
### Atticora\_melanoleuca seasonal overlap



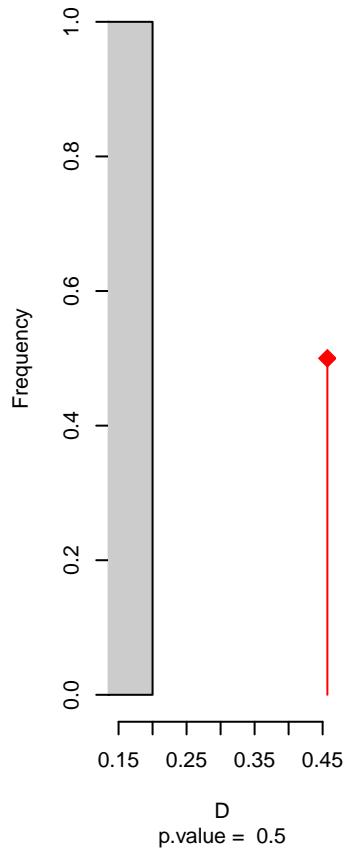
**Equivalency**



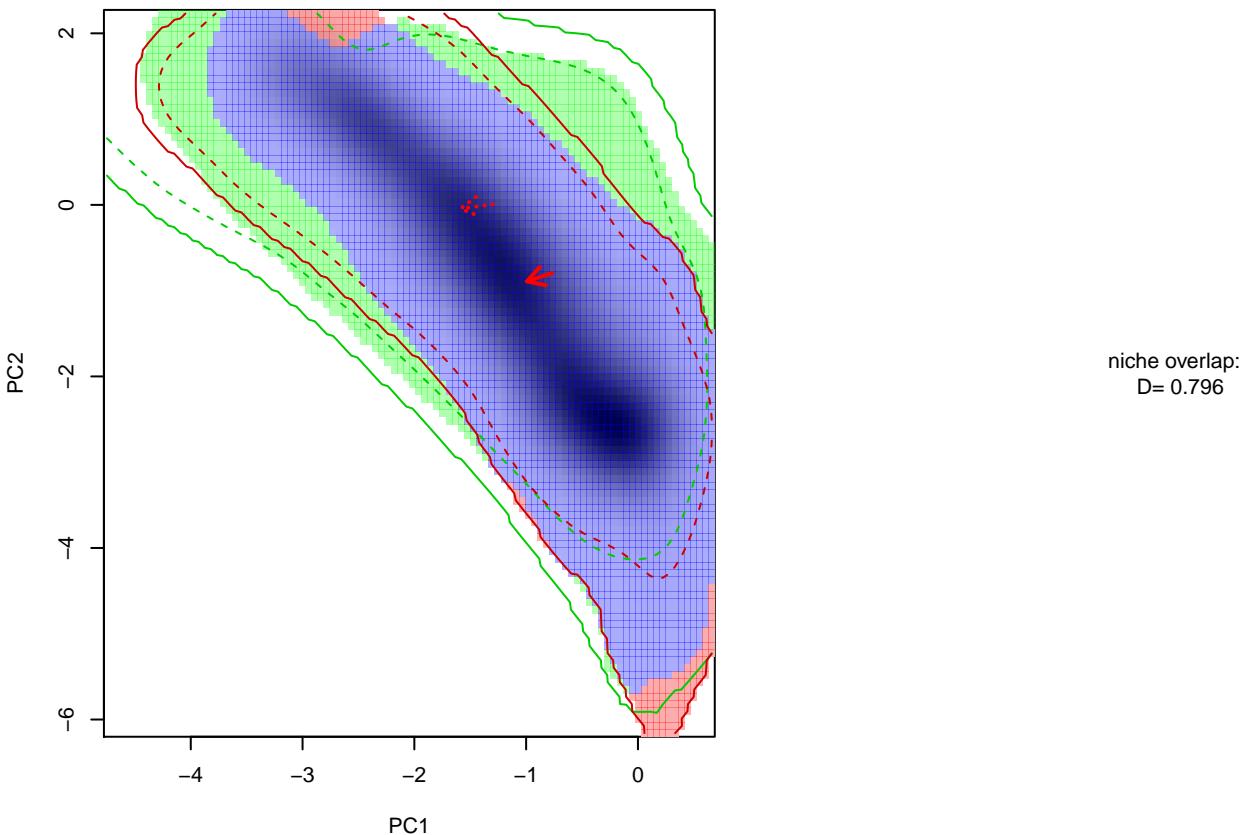
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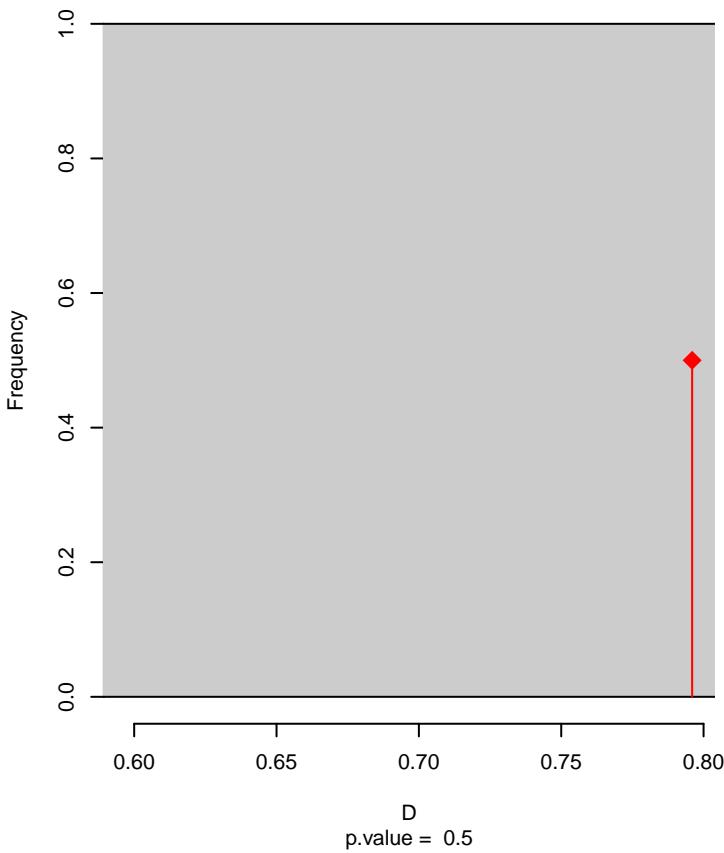
**Similarity 1→2**



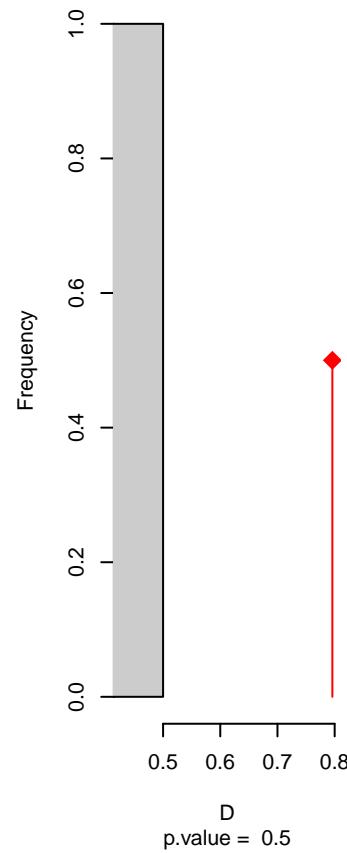
### Cecropis\_abyssinica seasonal overlap



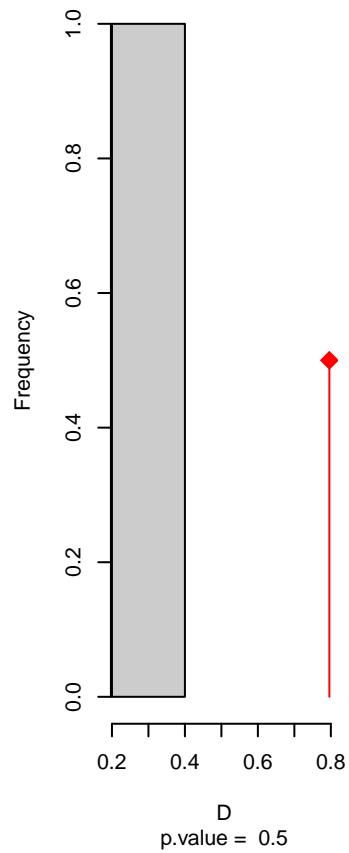
**Equivalency**



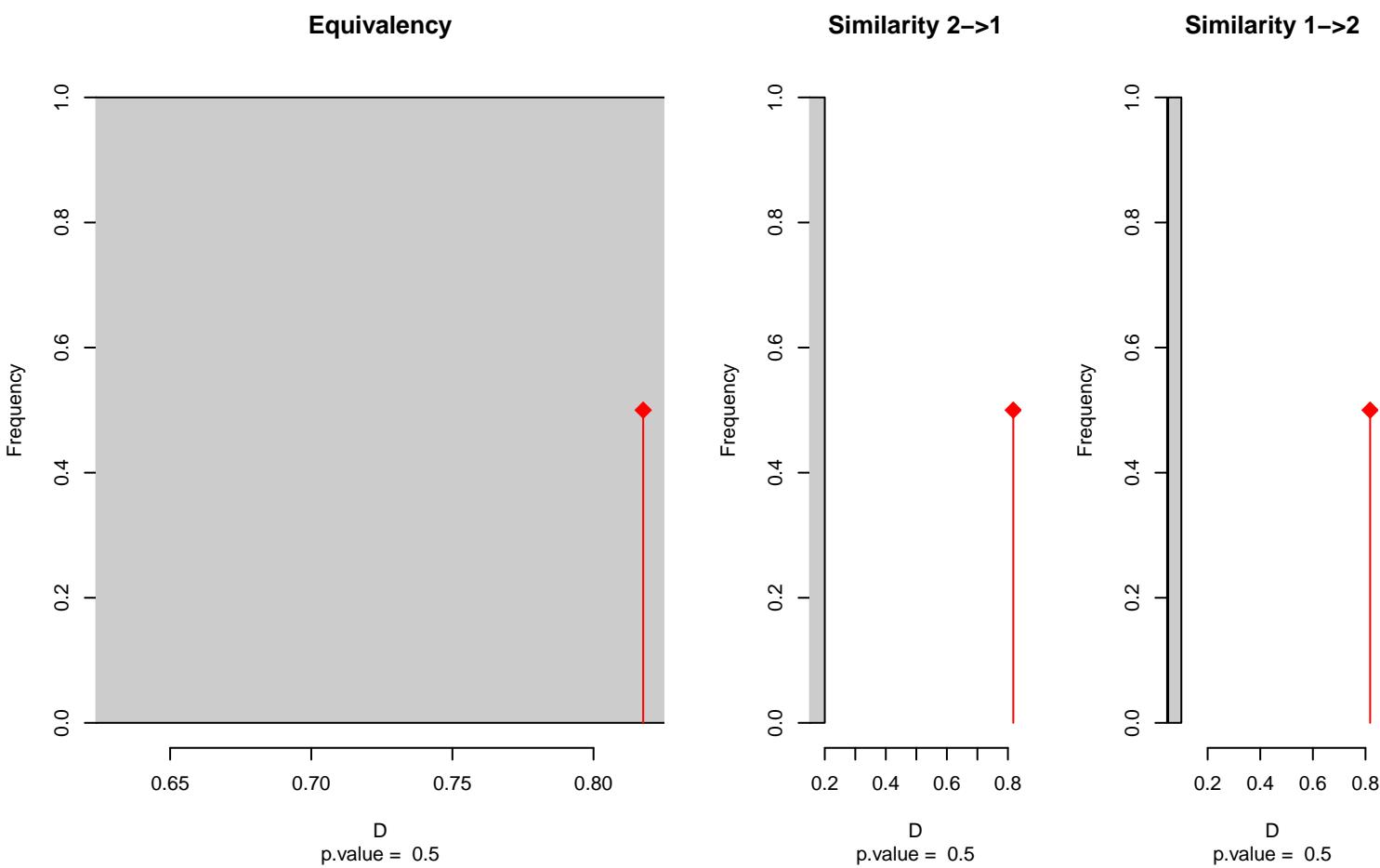
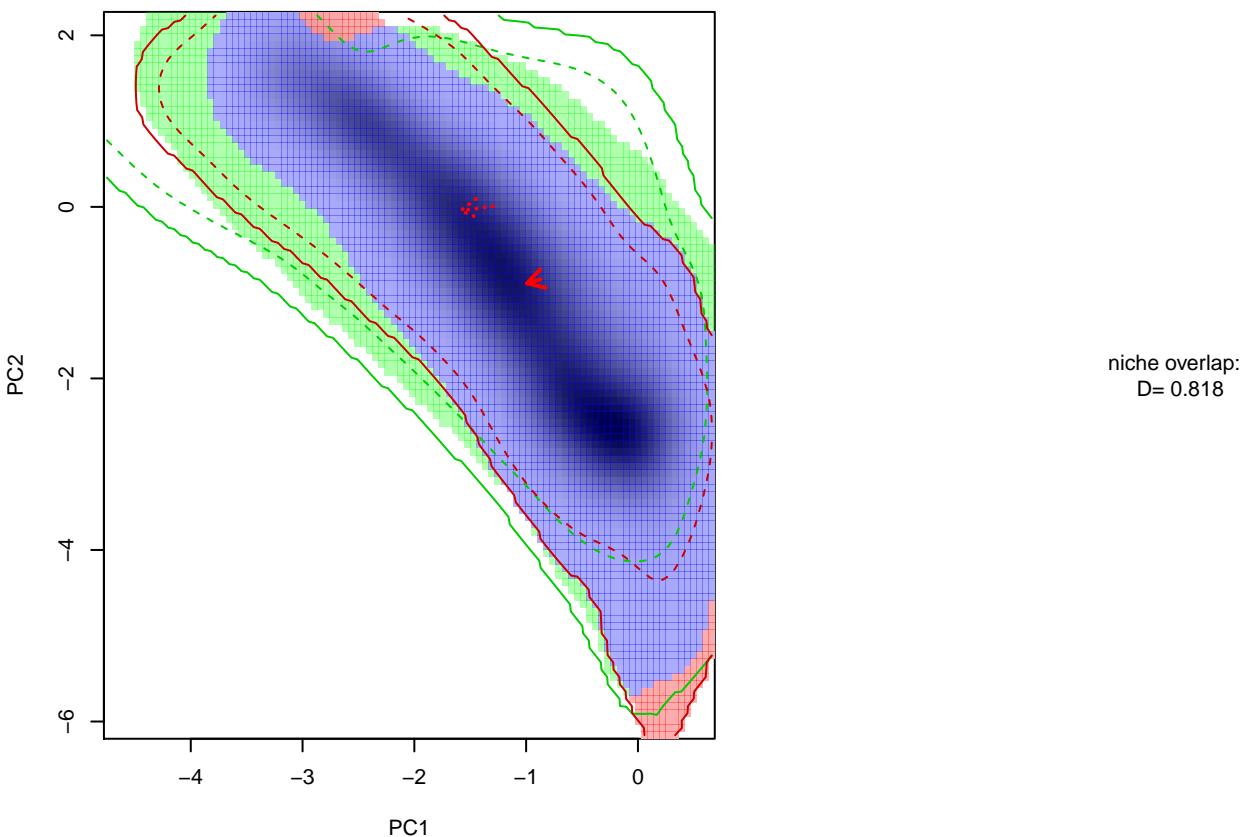
**Similarity 2→1**



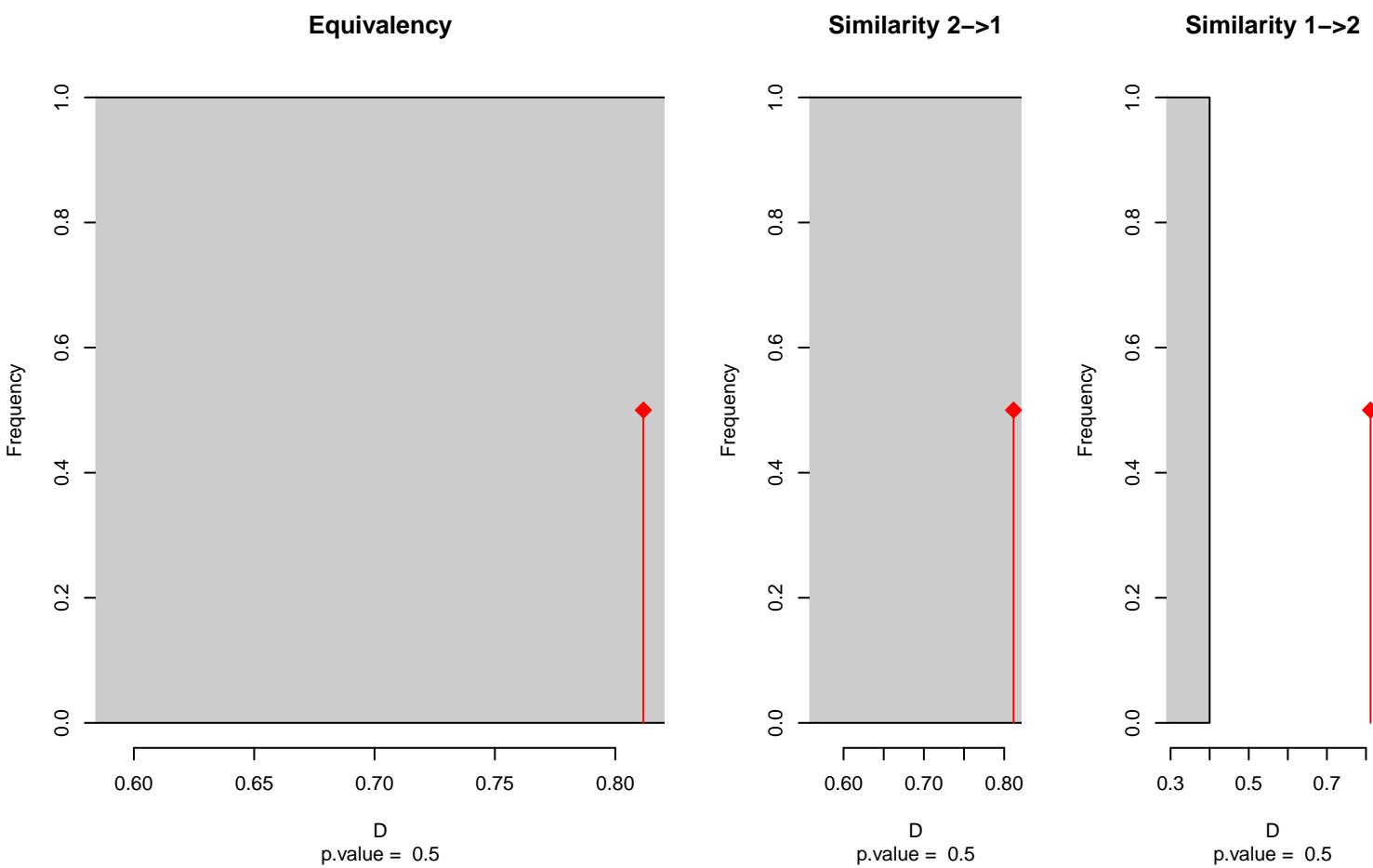
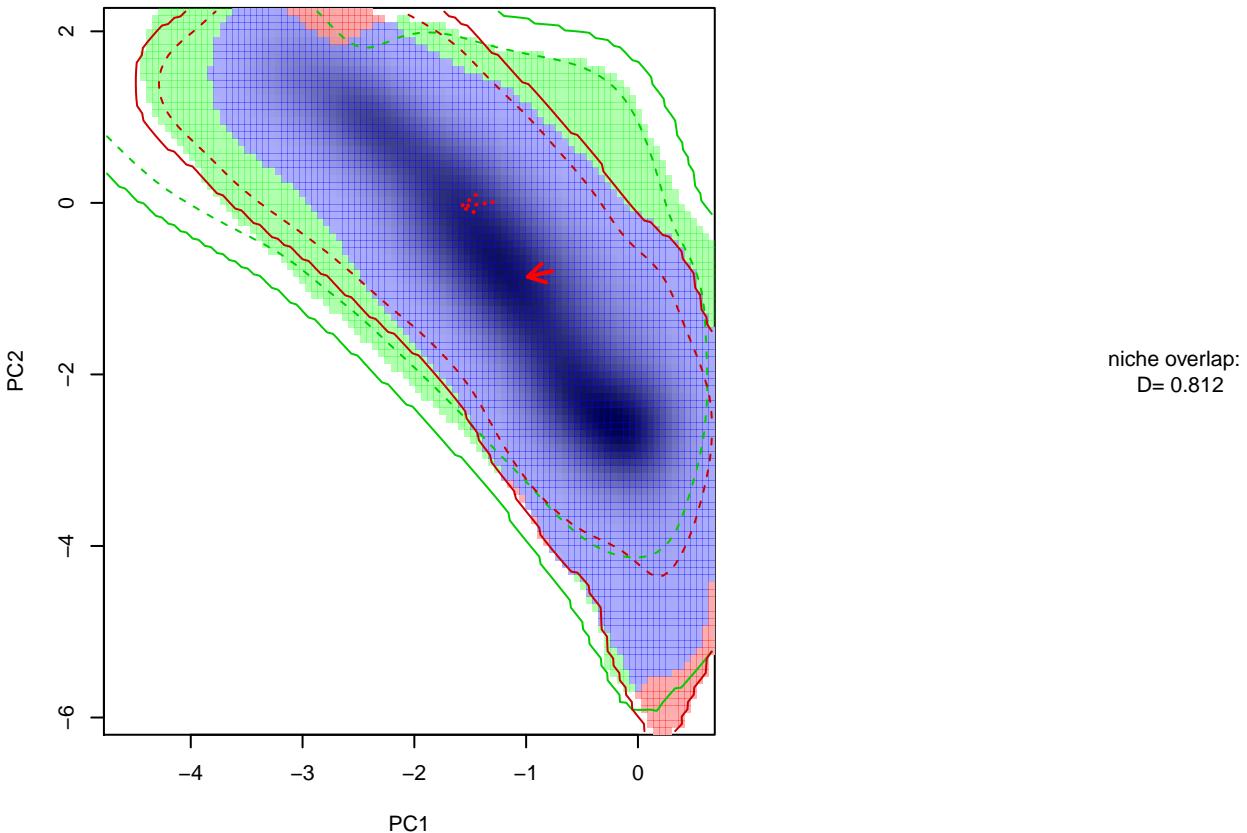
**Similarity 1→2**



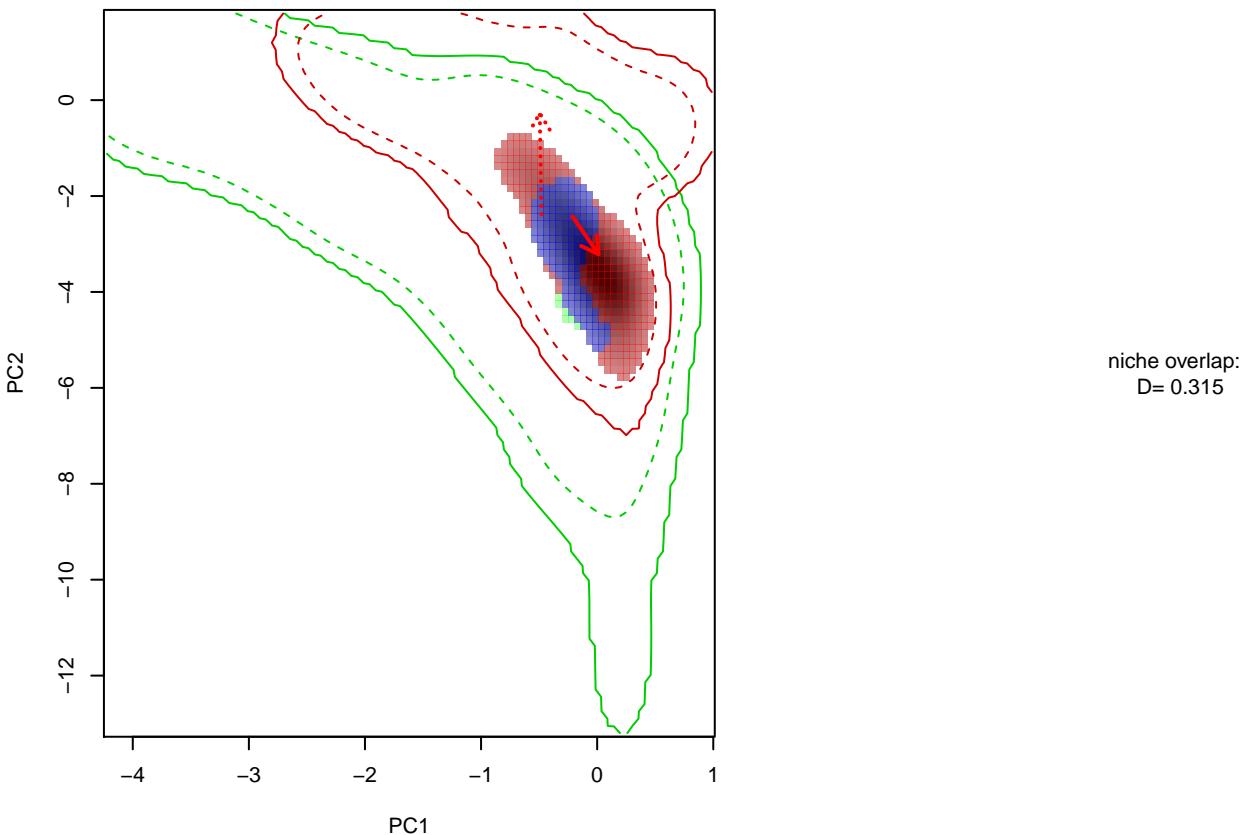
# Cecropis\_abyssinica seasonal overlap-hypo.br



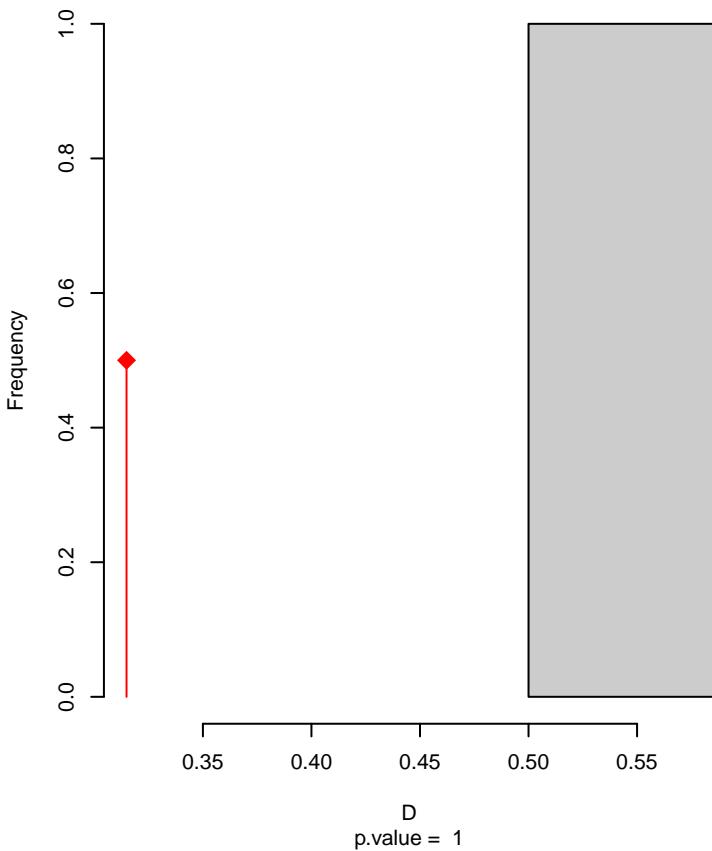
# Cecropis\_abyssinica seasonal overlap–hypo wi



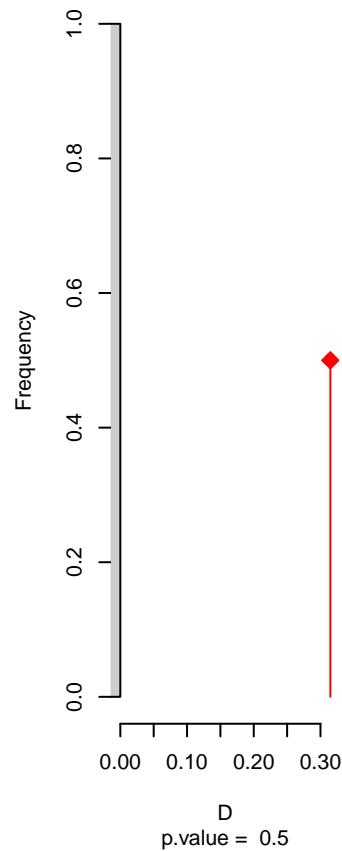
### Cecropis\_badia seasonal overlap



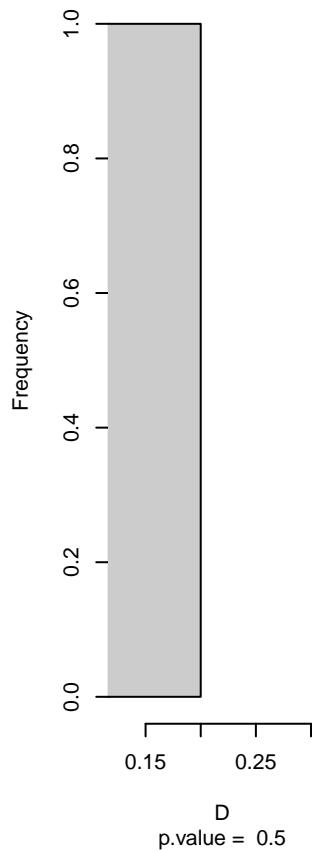
**Equivalency**



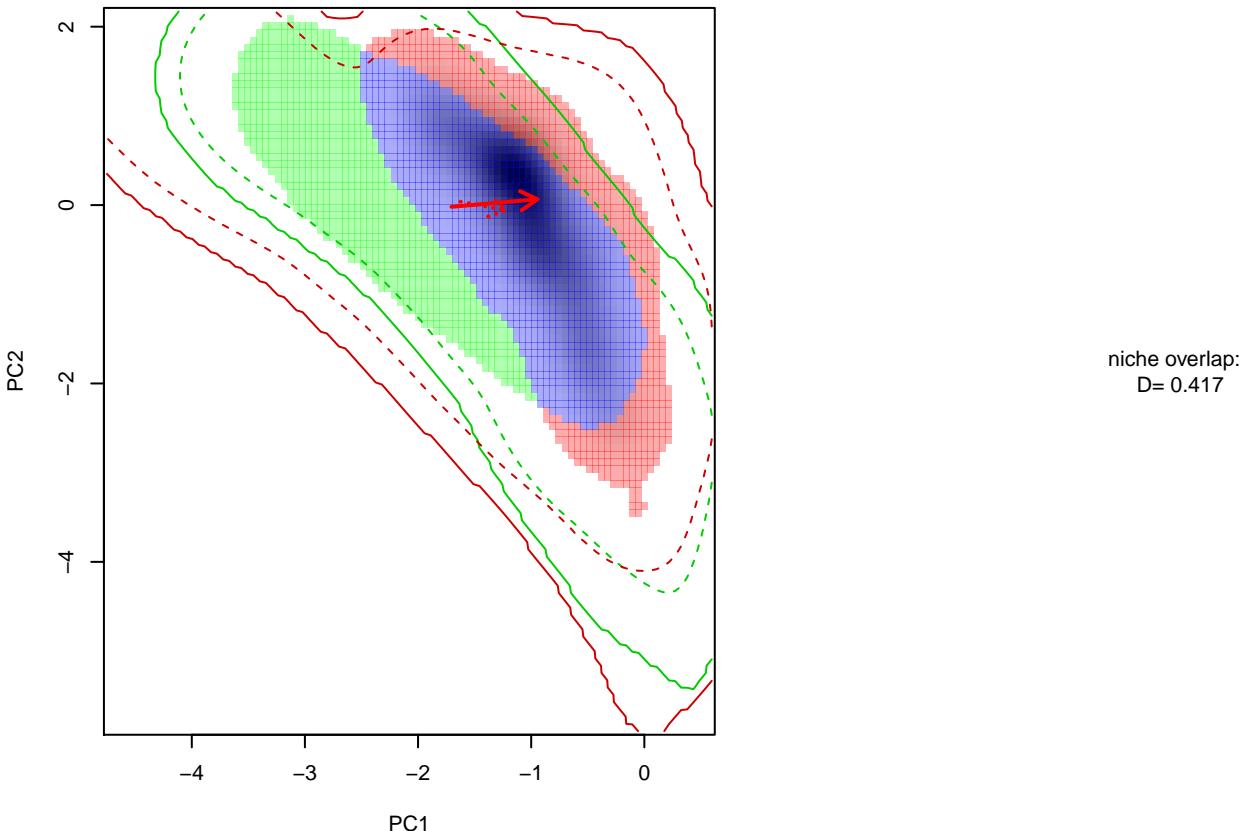
**Similarity 2→1**



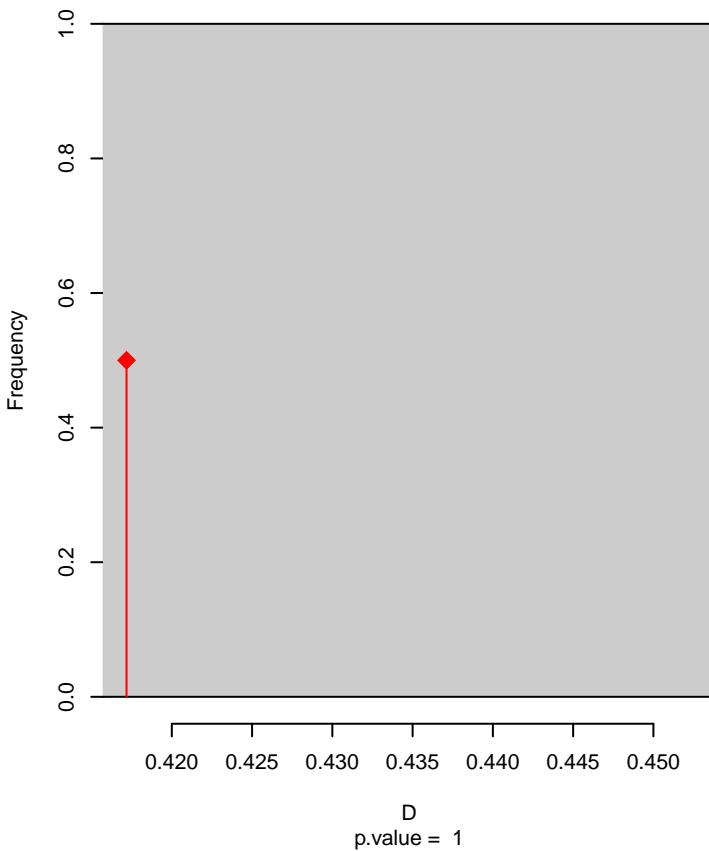
**Similarity 1→2**



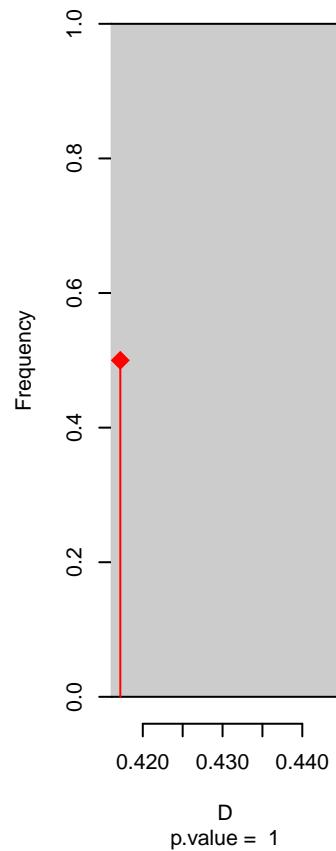
### Cecropis\_cucullata seasonal overlap



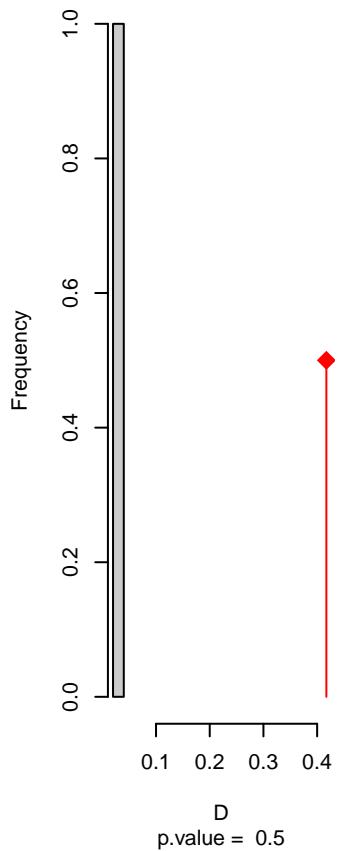
**Equivalency**



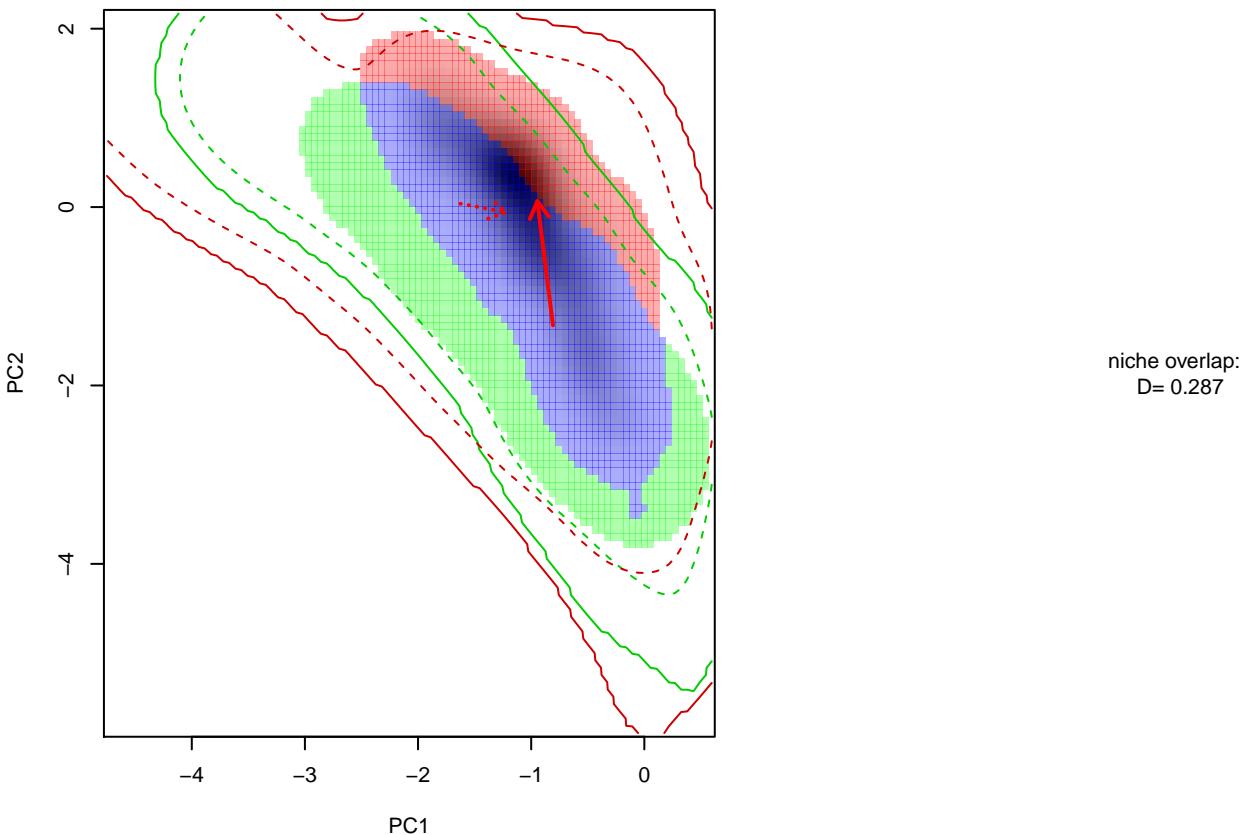
**Similarity 2→1**



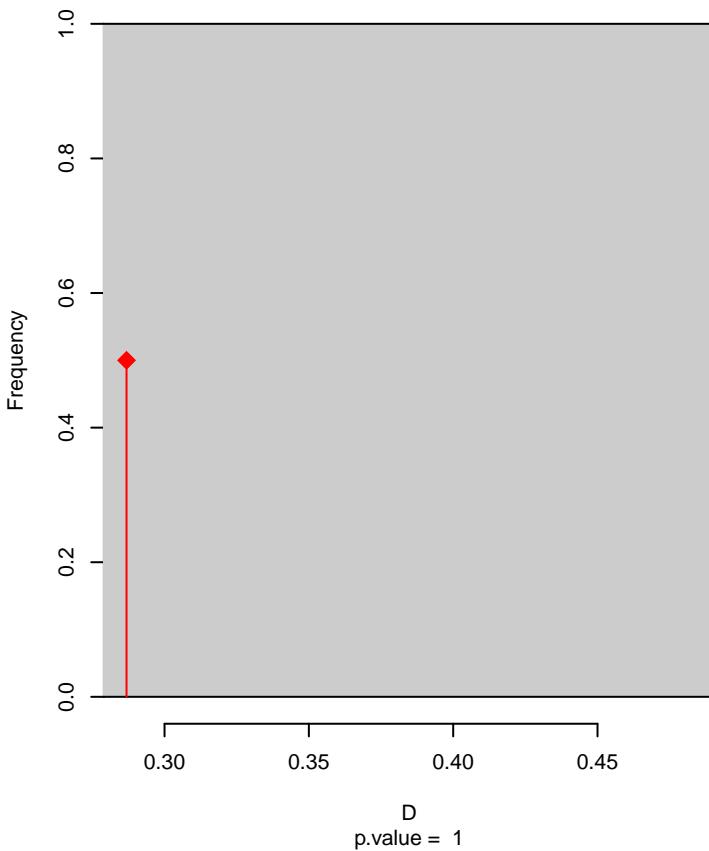
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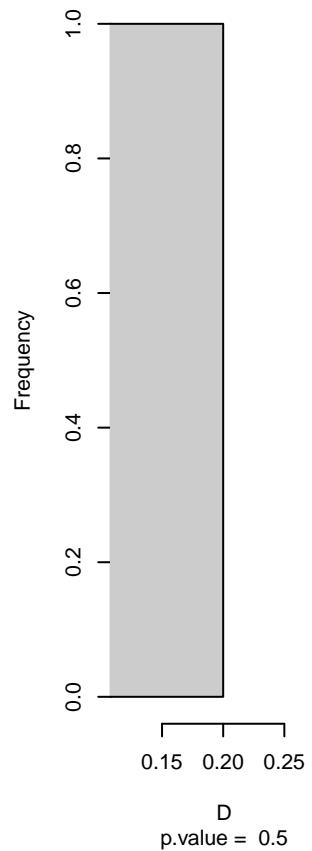
# Cecropis\_cucullata seasonal overlap-hypo.br



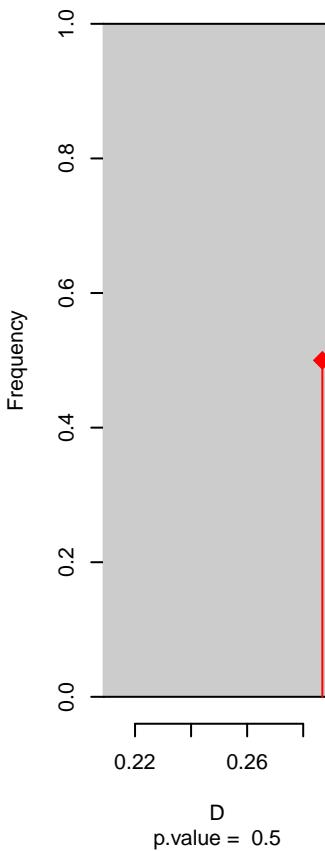
**Equivalency**



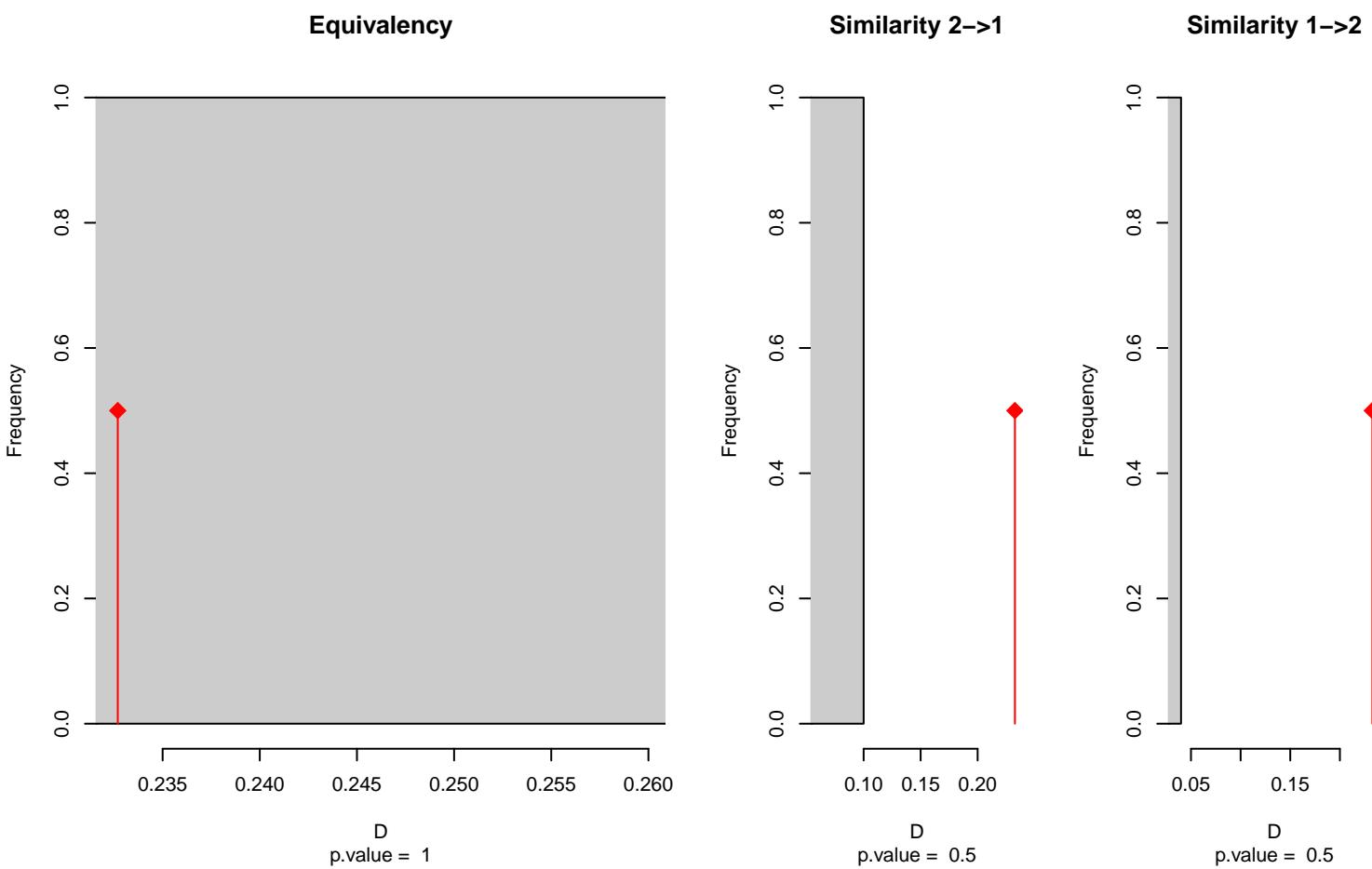
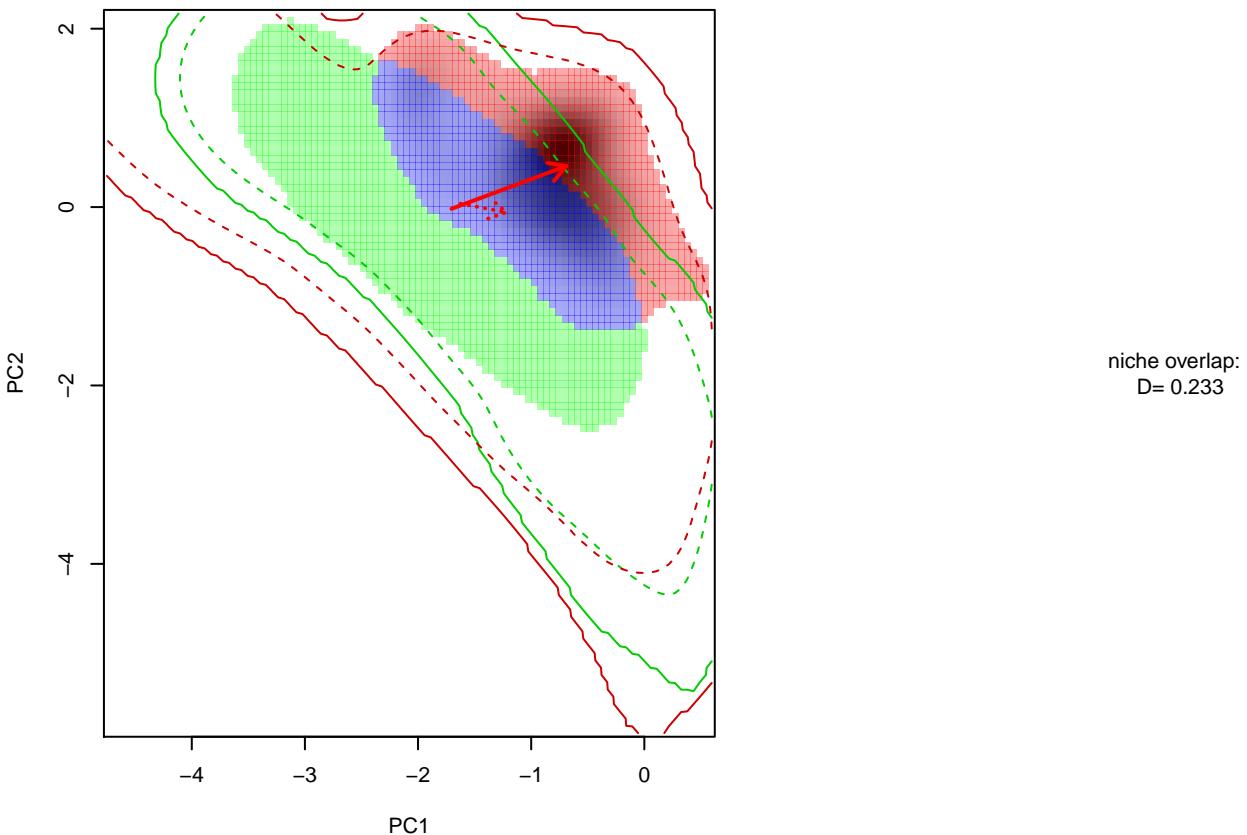
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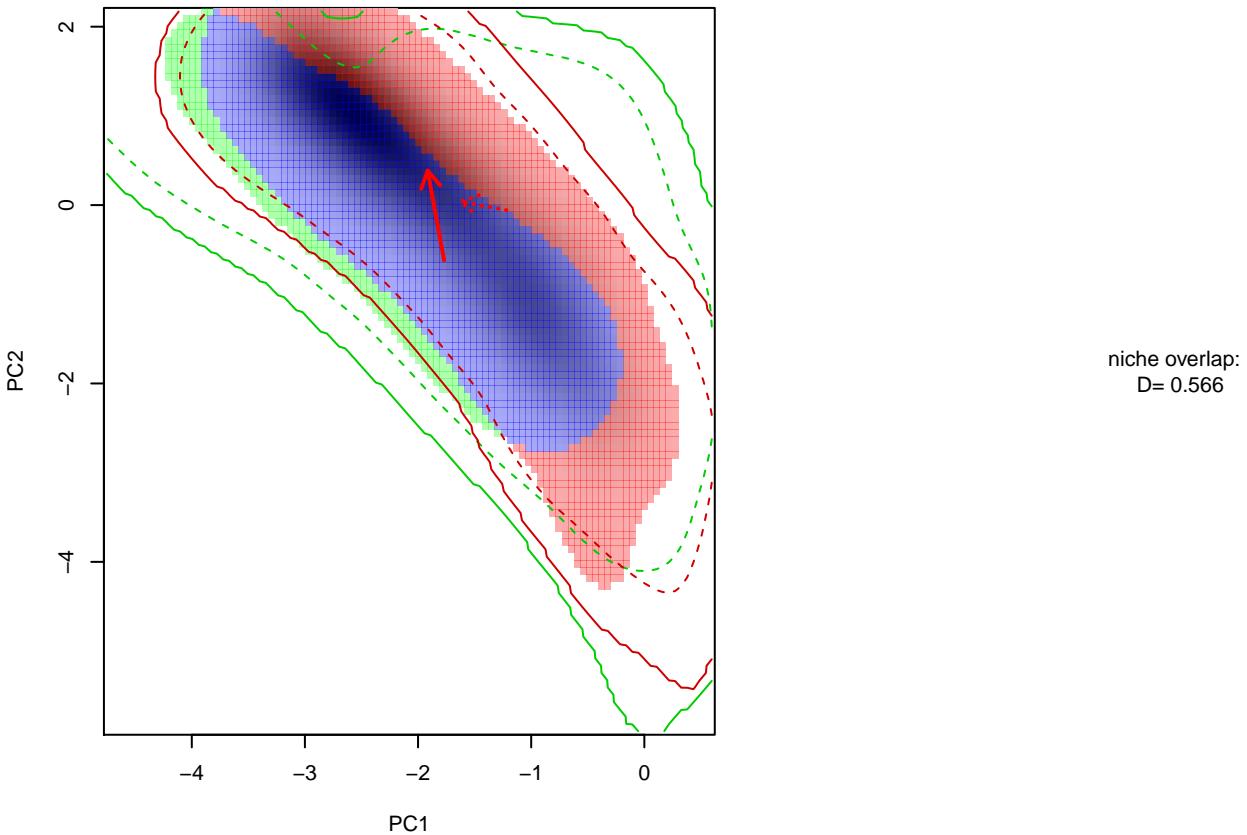
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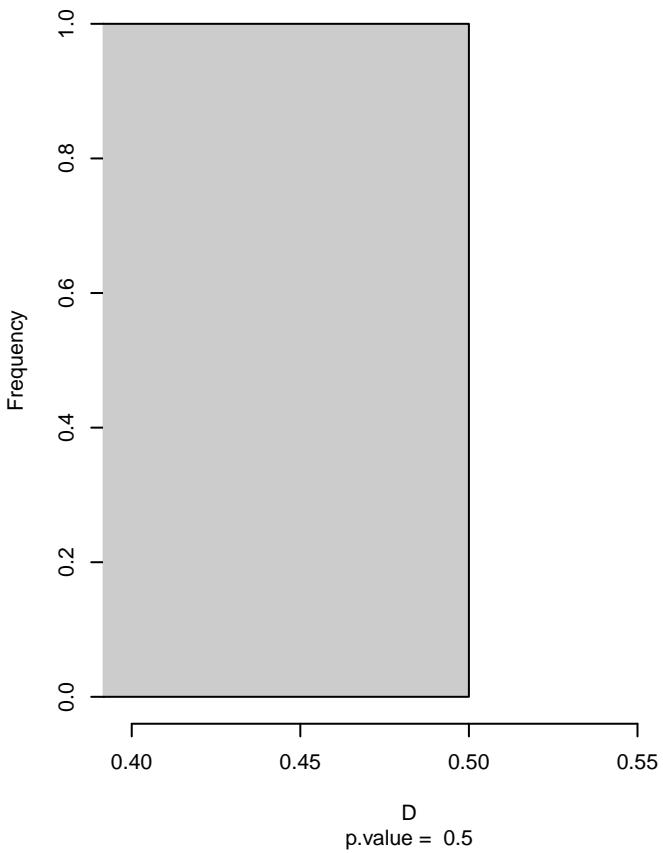
# Cecropis\_cucullata seasonal overlap-hypo wi



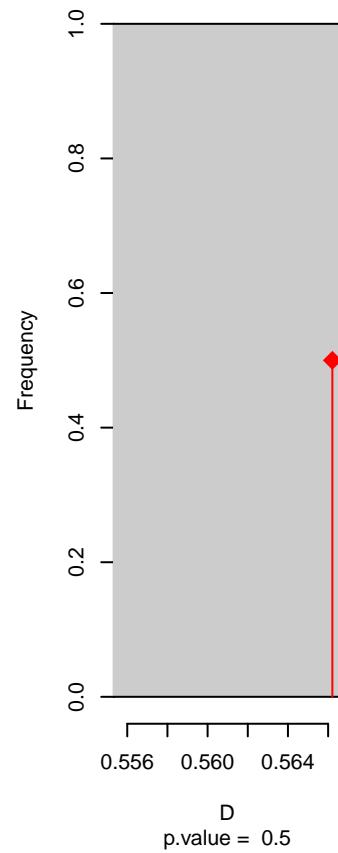
### Cecropis\_domicella seasonal overlap



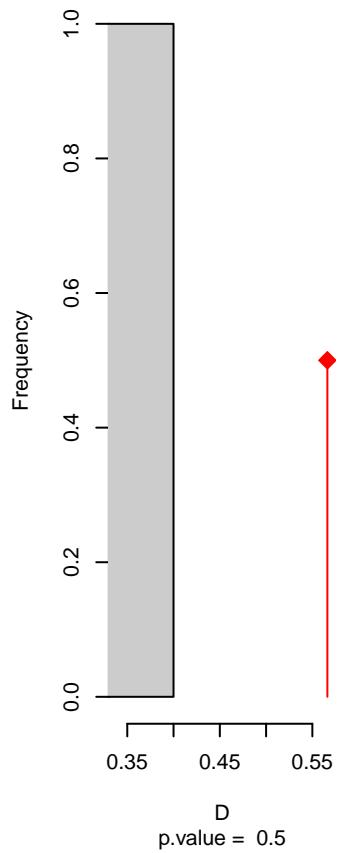
**Equivalency**



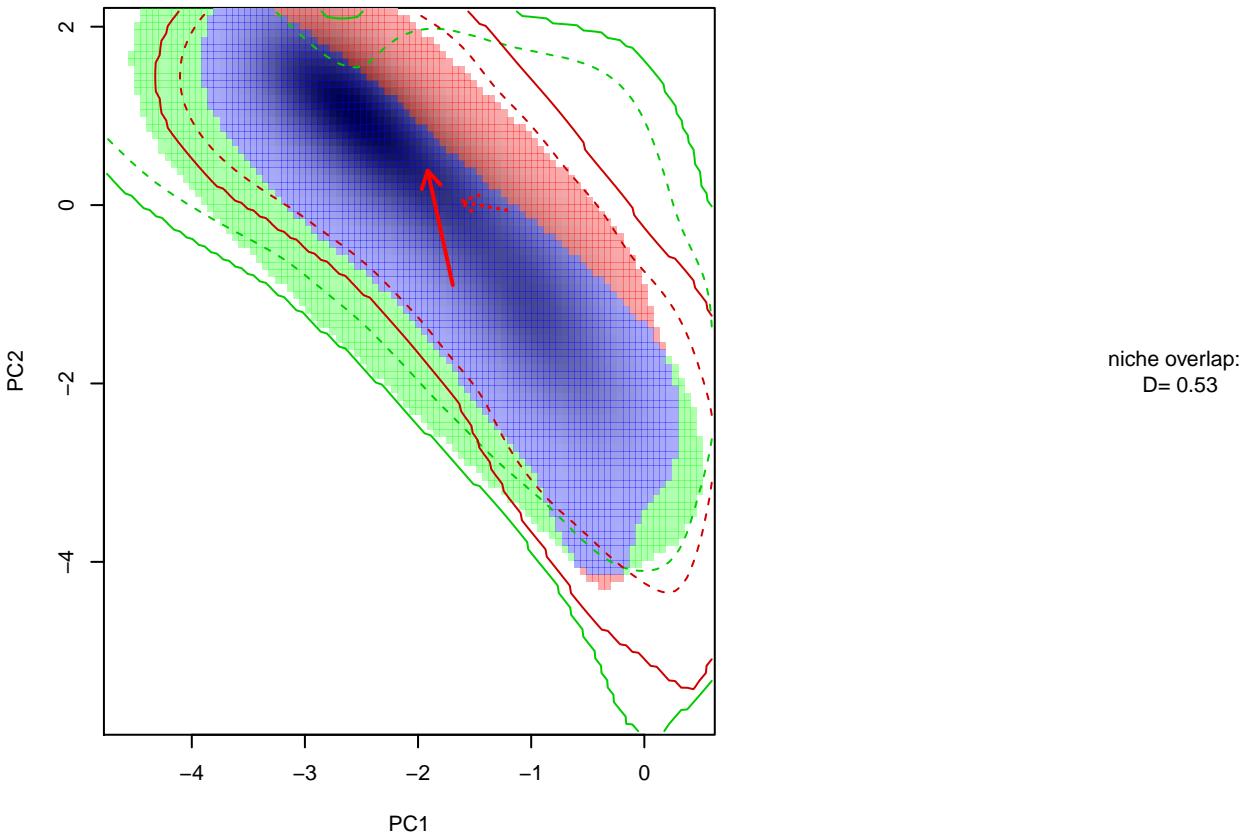
**Similarity 2→1**



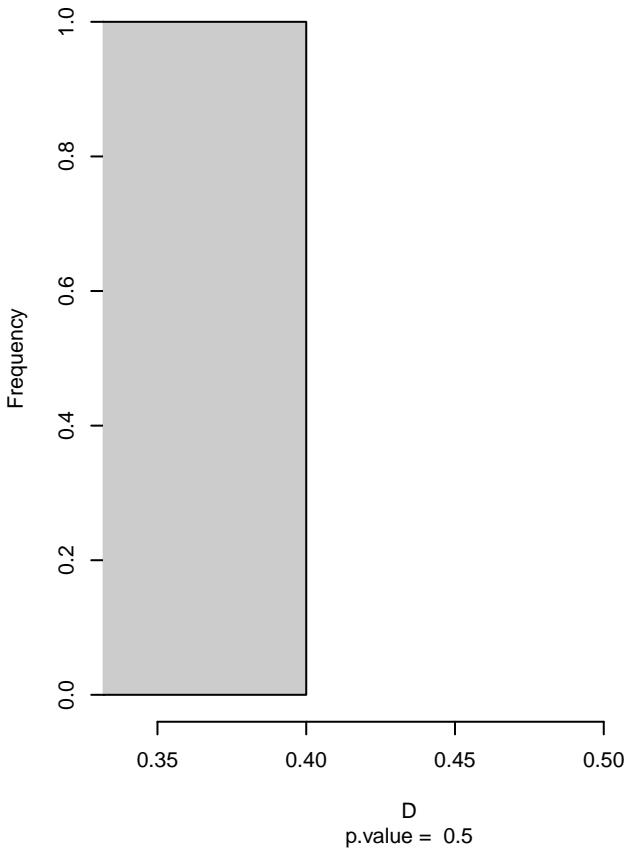
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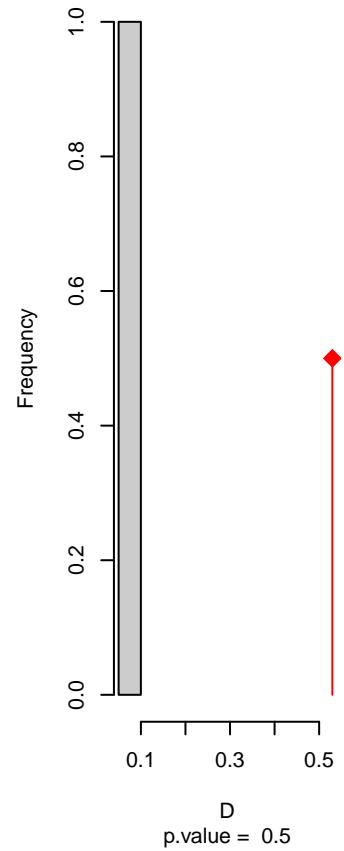
# Cecropis\_domicella seasonal overlap-hypo.br



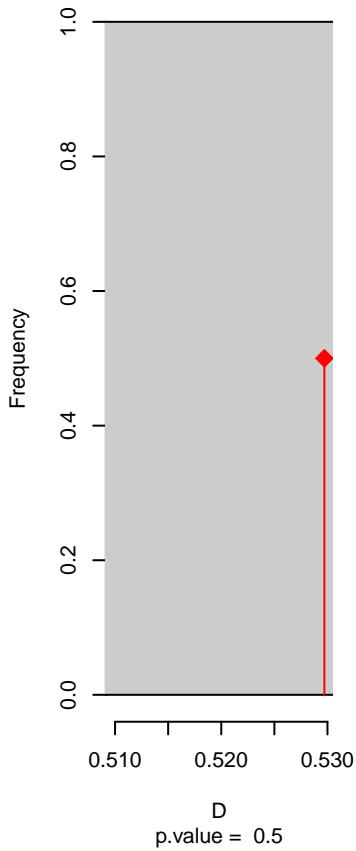
**Equivalency**



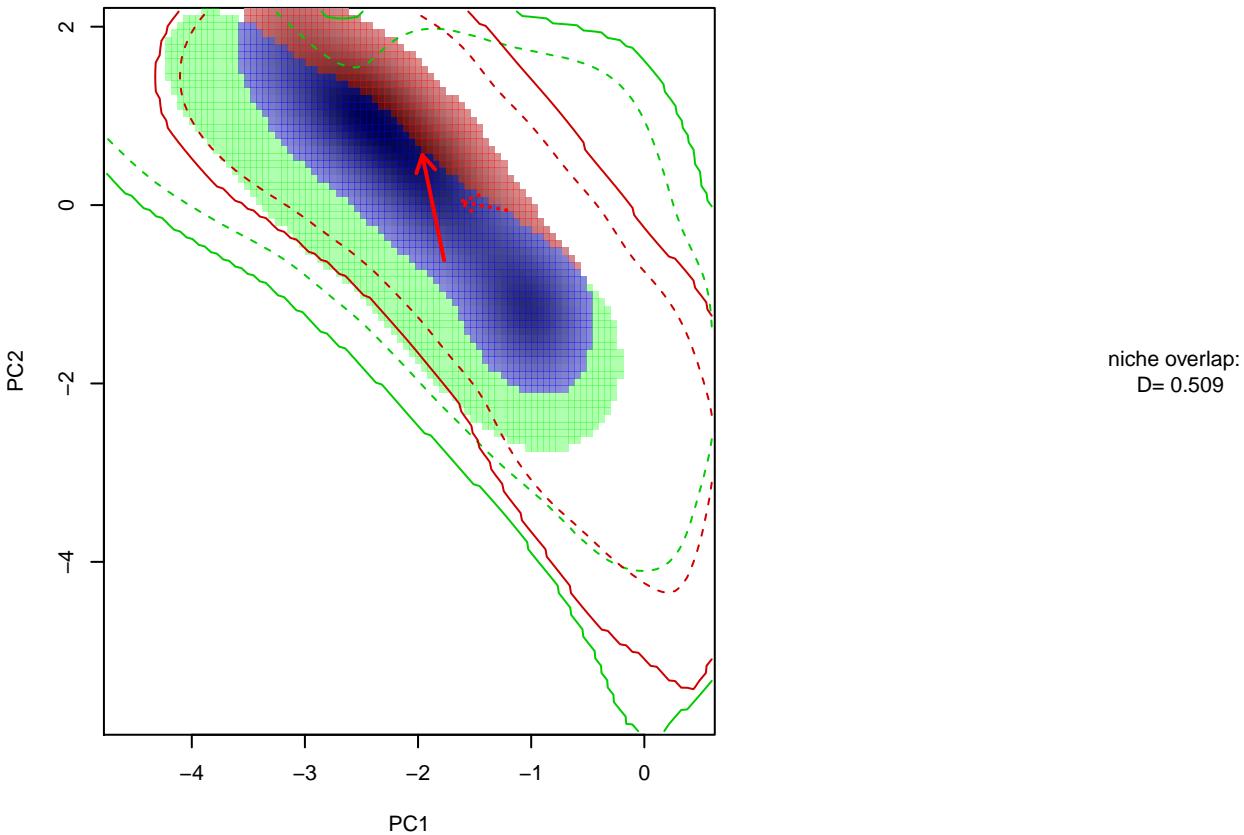
**Similarity 2→1**



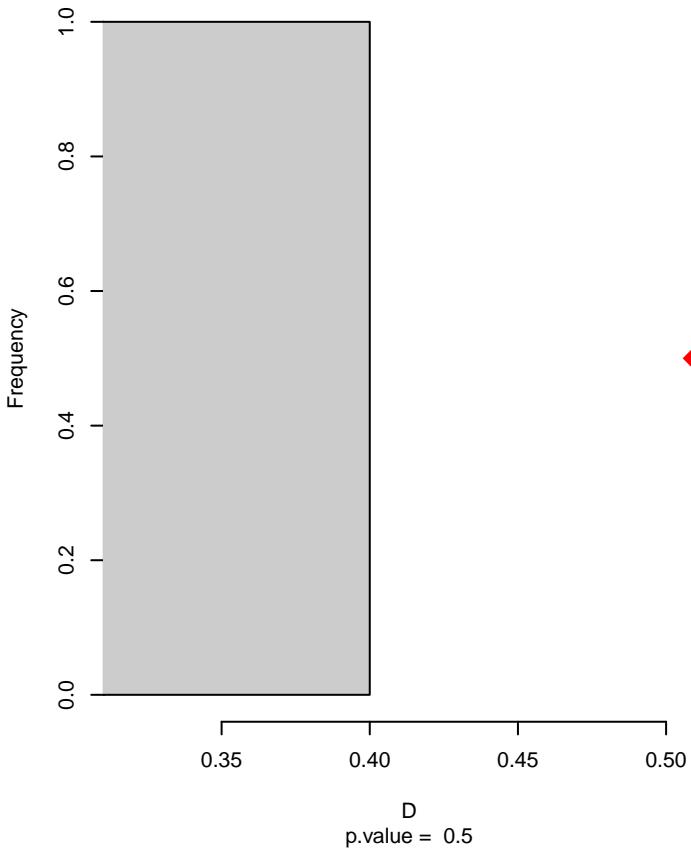
**Similarity 1→2**



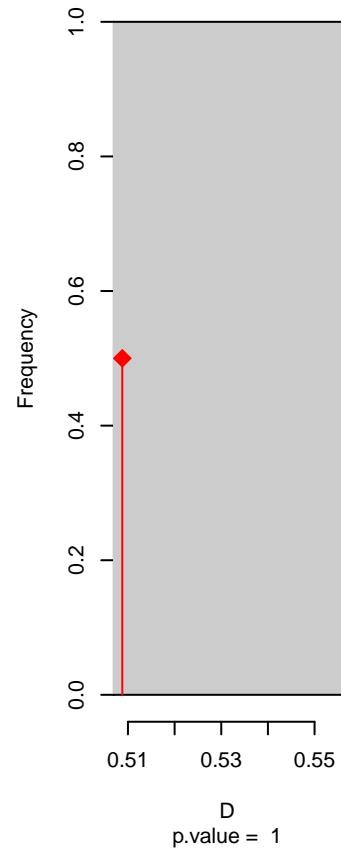
# Cecropis\_domicella seasonal overlap-hypo wi



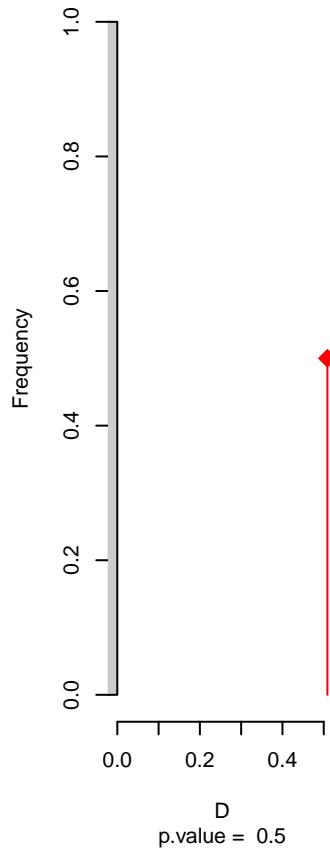
**Equivalency**



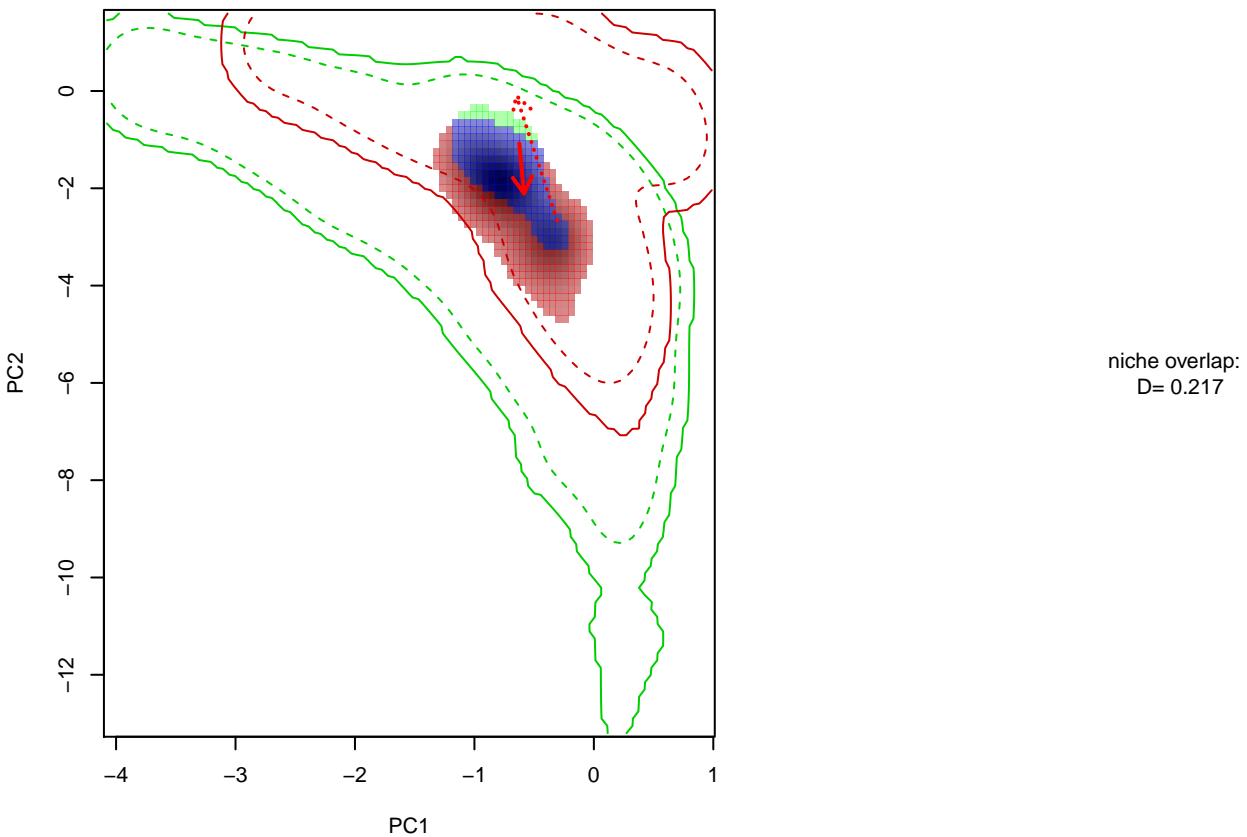
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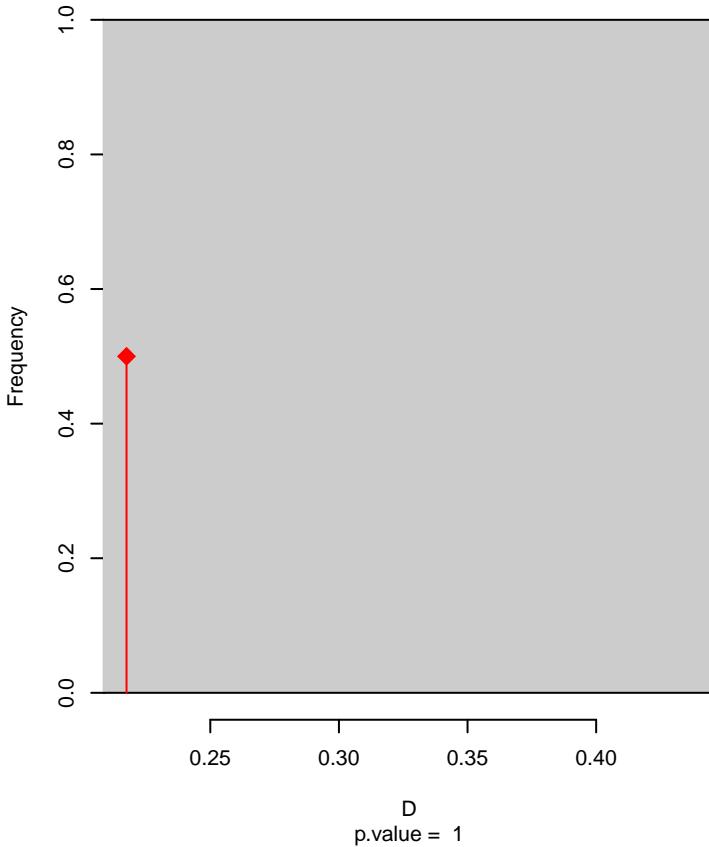
**Similarity 1→2**



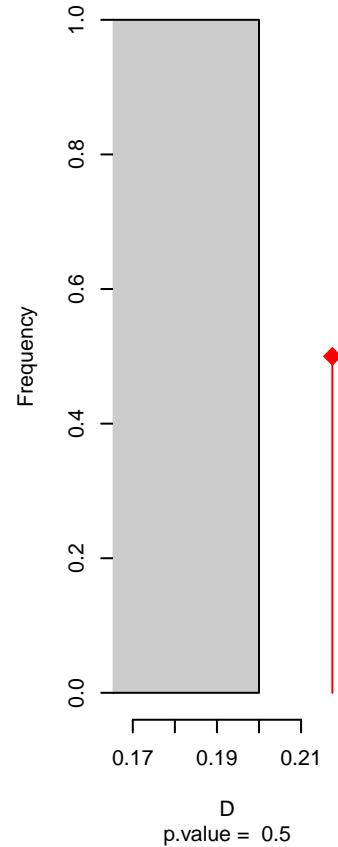
### Cecropis\_hyerythra seasonal overlap



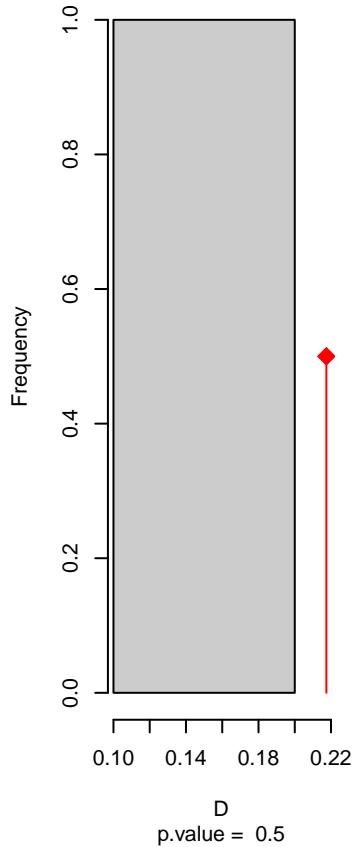
**Equivalency**



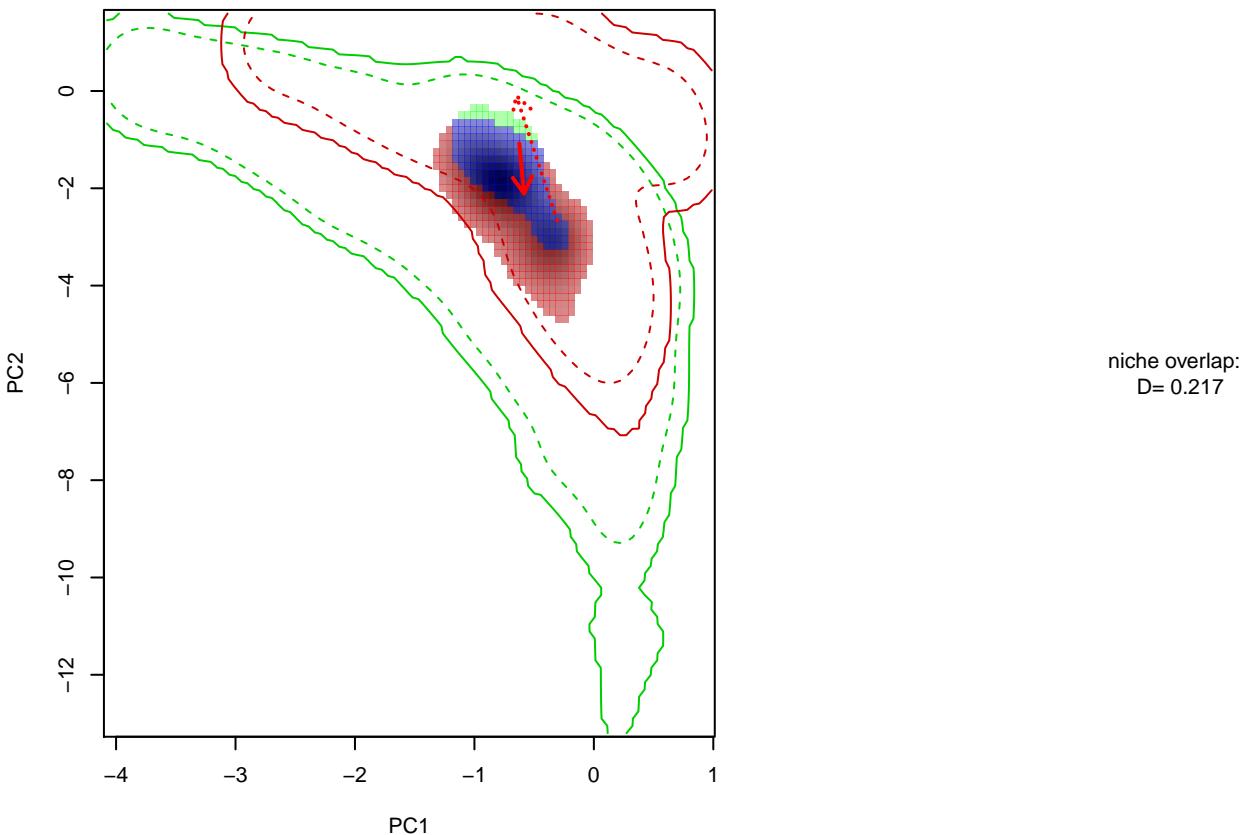
**Similarity 2→1**



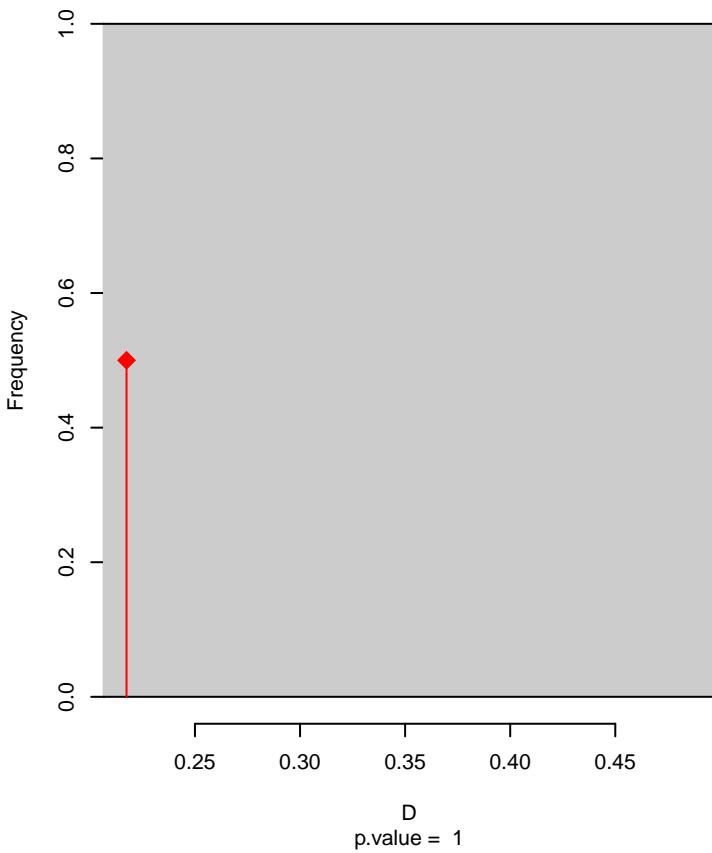
**Similarity 1→2**



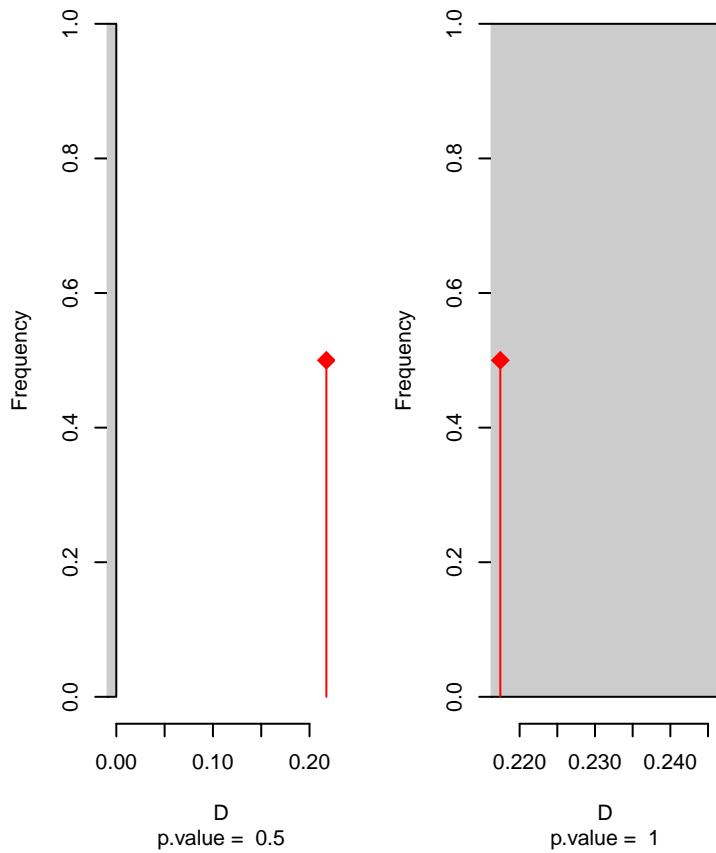
# Cecropis\_hyerythra seasonal overlap-hypo.br



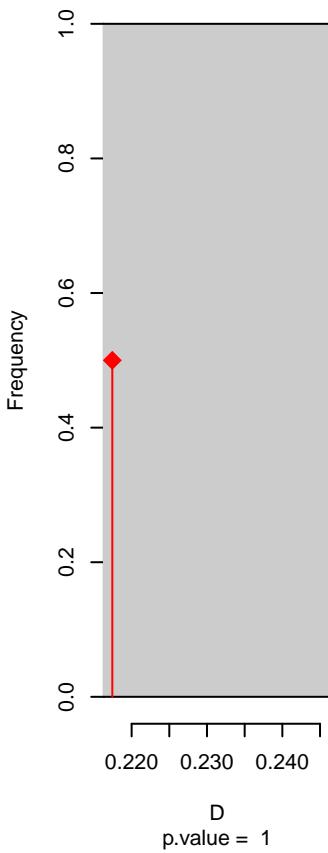
Equivalency



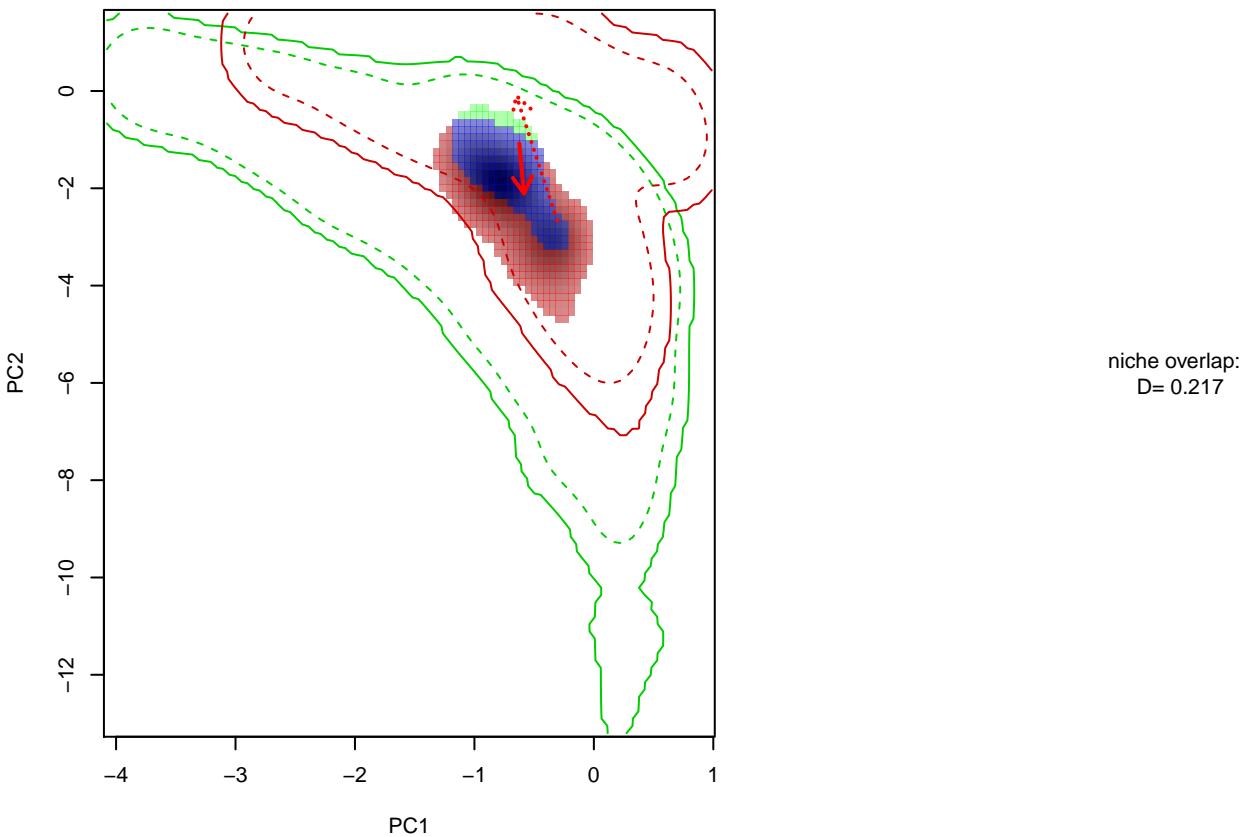
Similarity 2→1



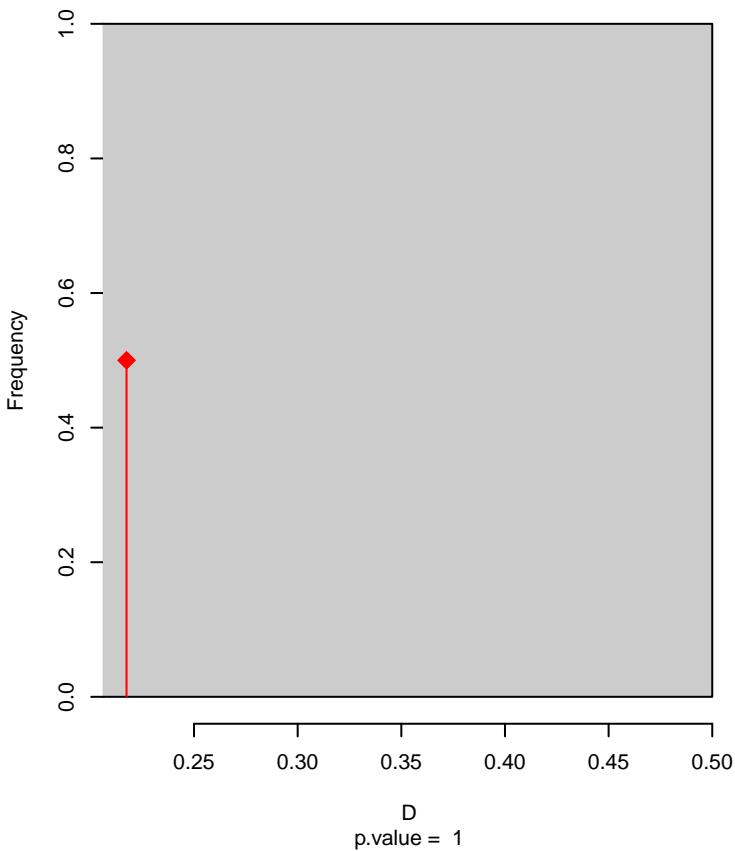
Similarity 1→2



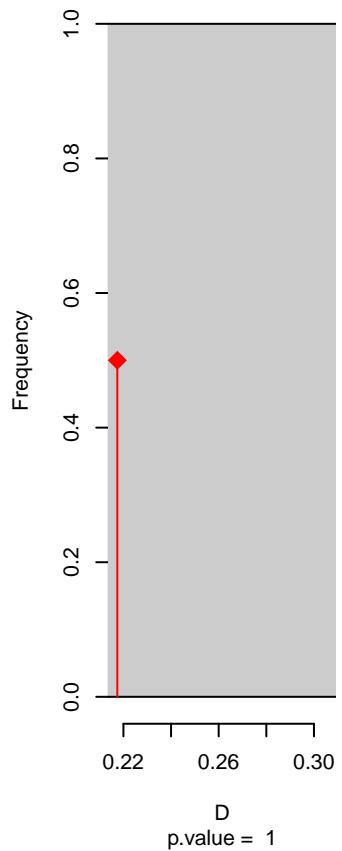
# Cecropis\_hyerythra seasonal overlap-hypo wi



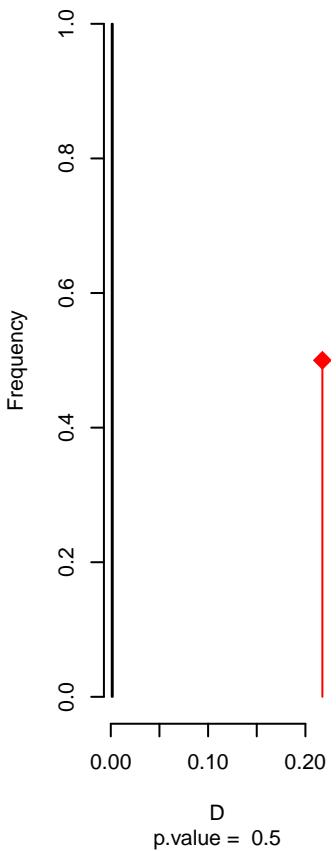
Equivalency



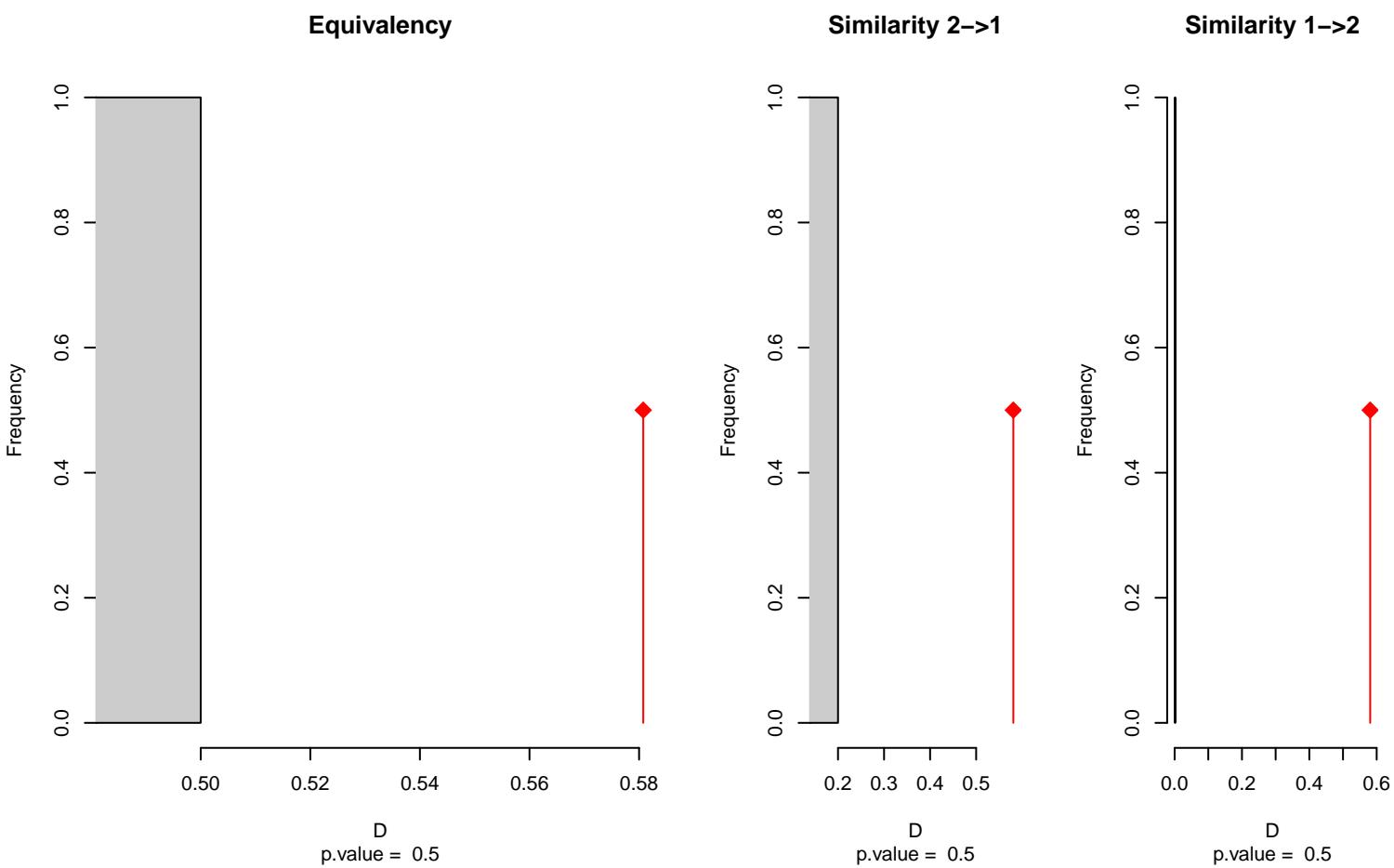
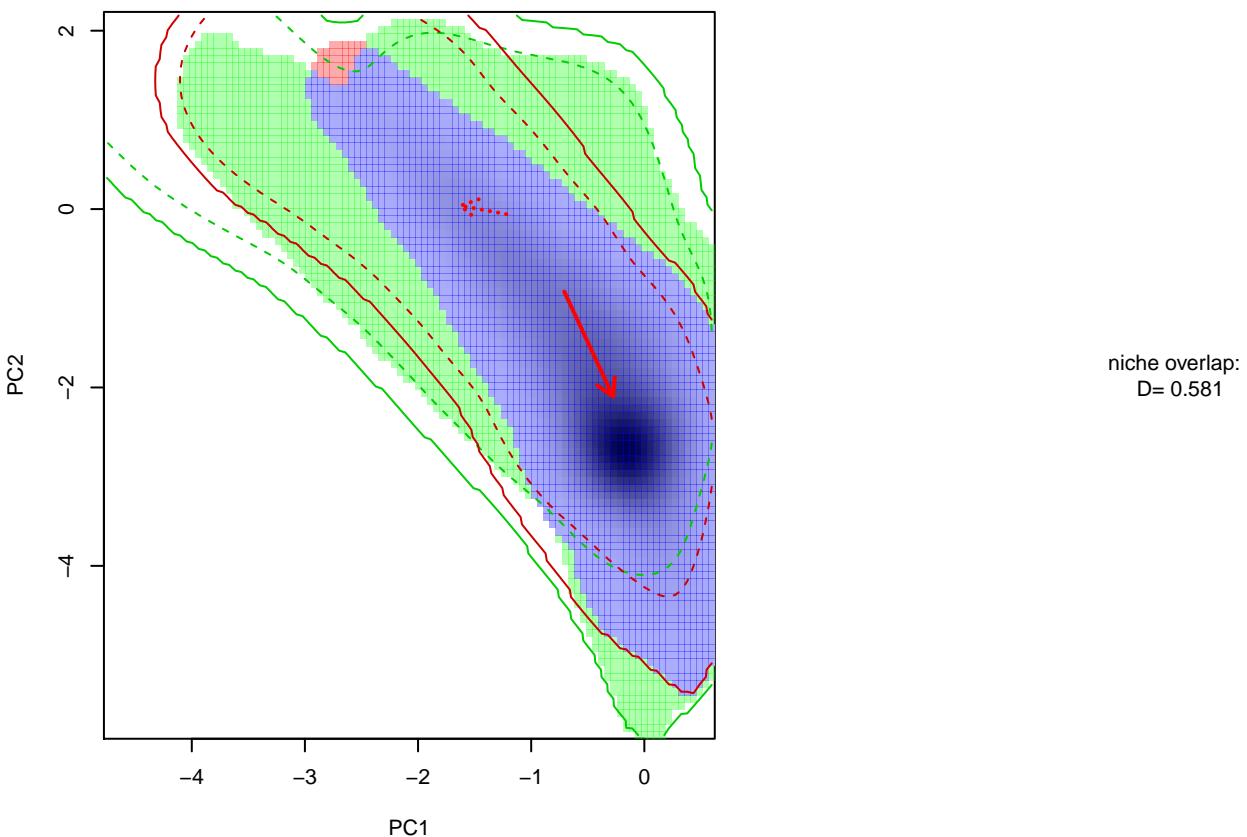
Similarity 2→1



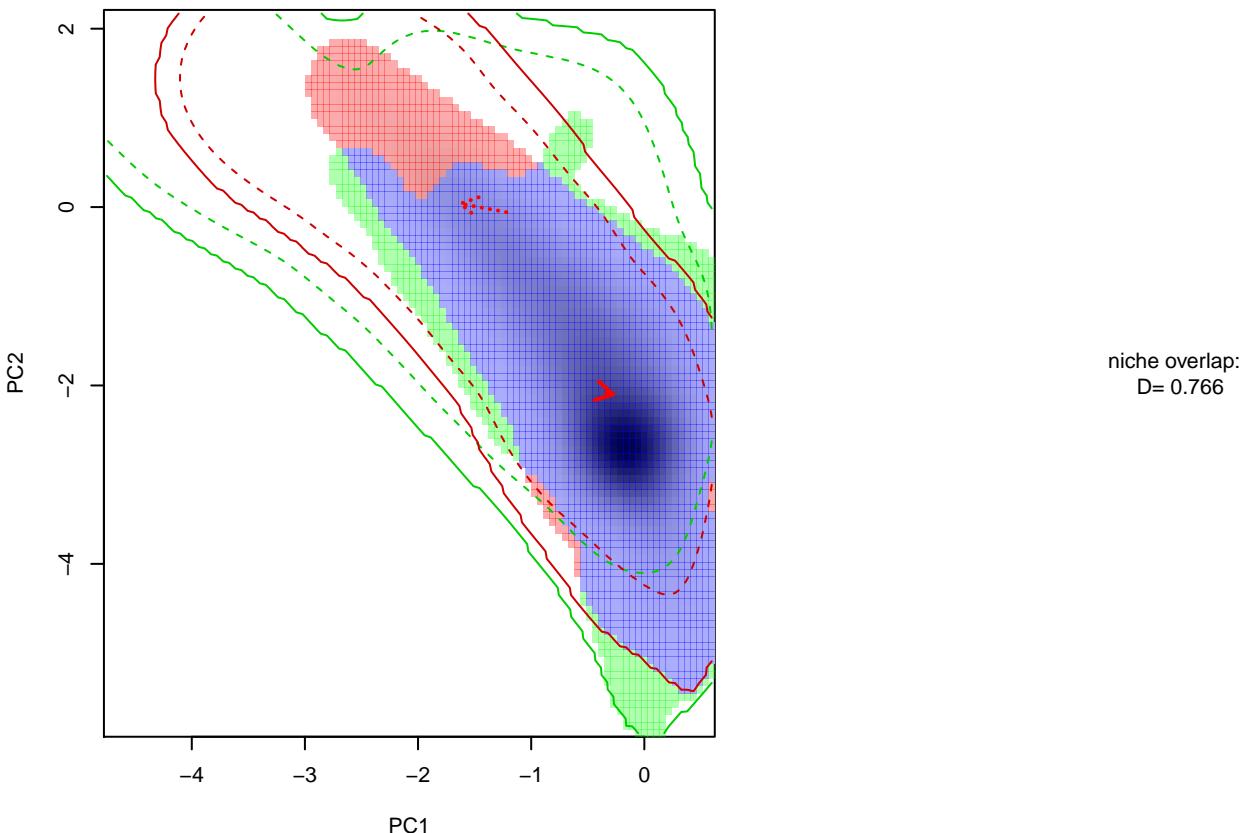
Similarity 1→2



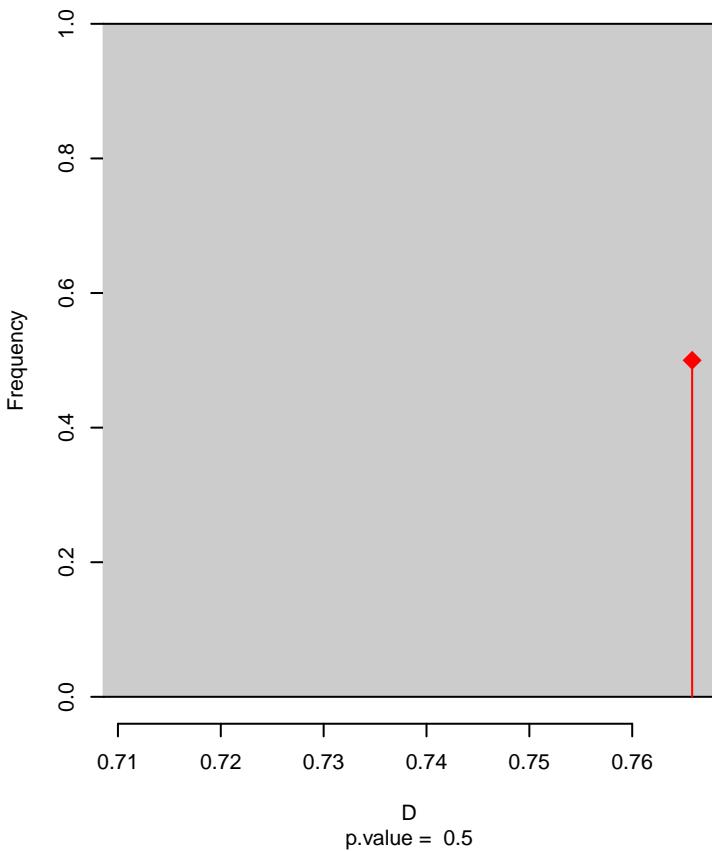
### Cecropis\_semirufa seasonal overlap



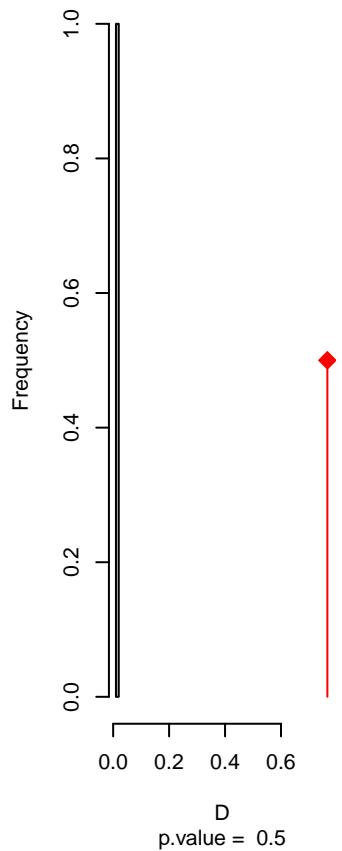
# Cecropis\_semirufa seasonal overlap-hypo.br



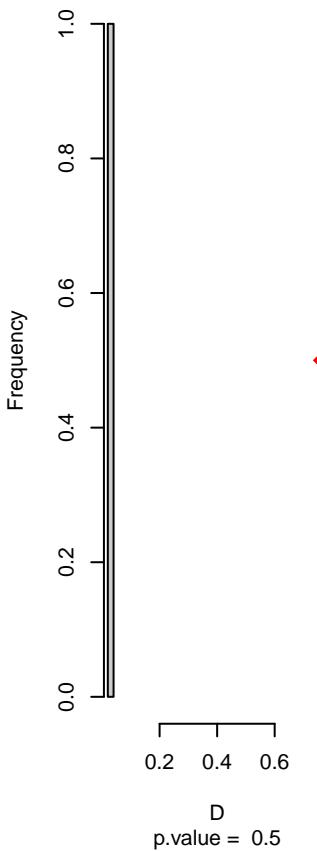
**Equivalency**



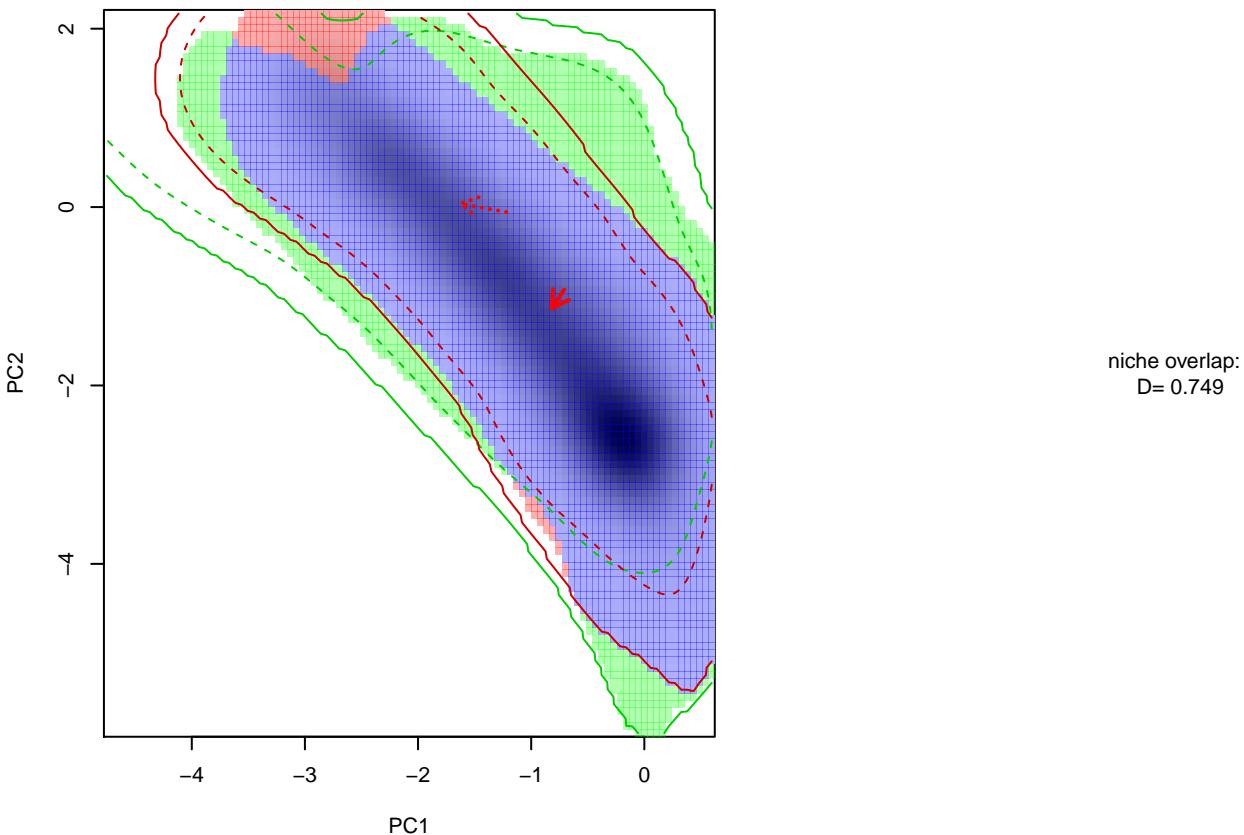
**Similarity 2→1**



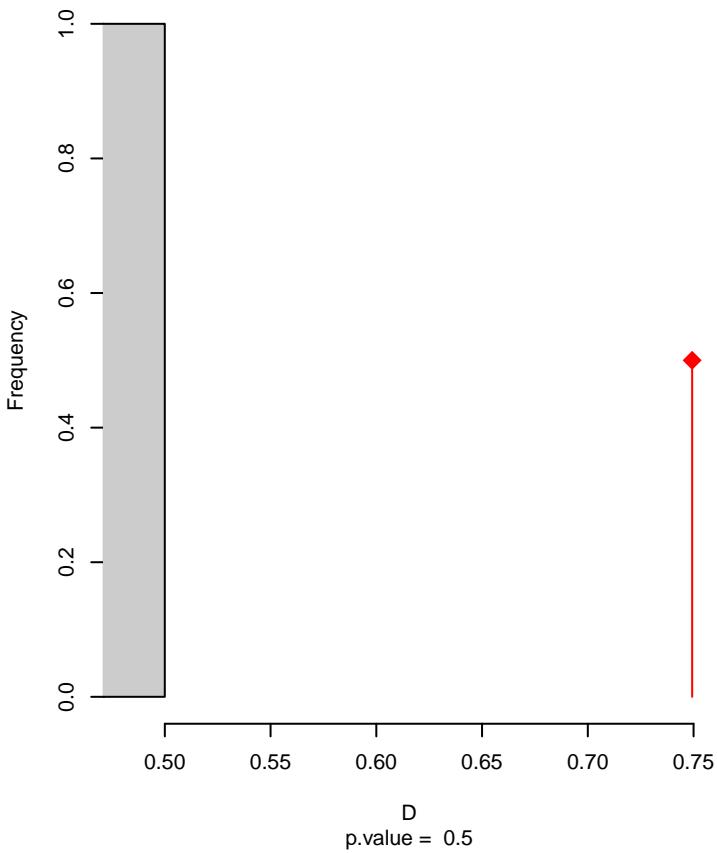
**Similarity 1→2**



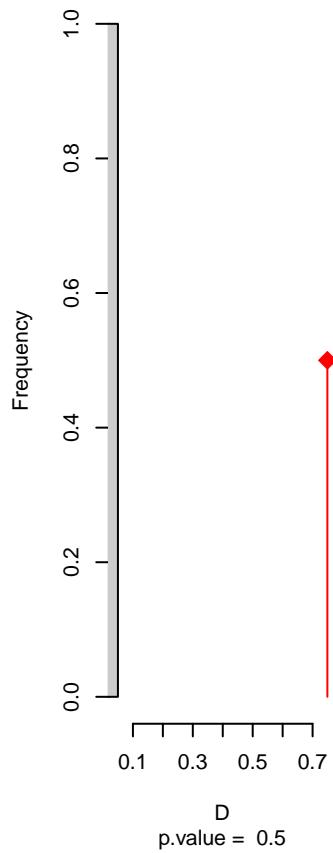
# Cecropis\_semirufa seasonal overlap-hypo wi



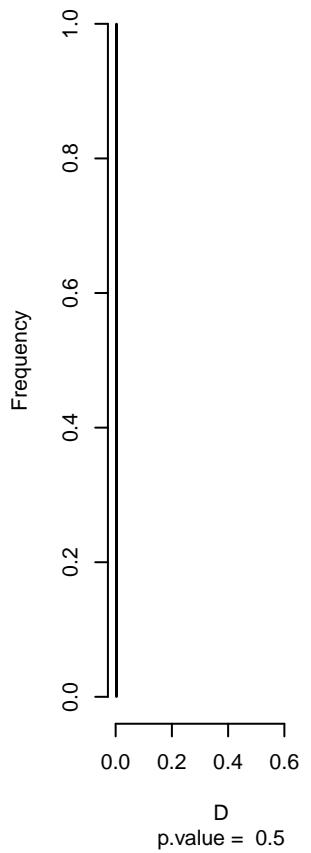
**Equivalency**



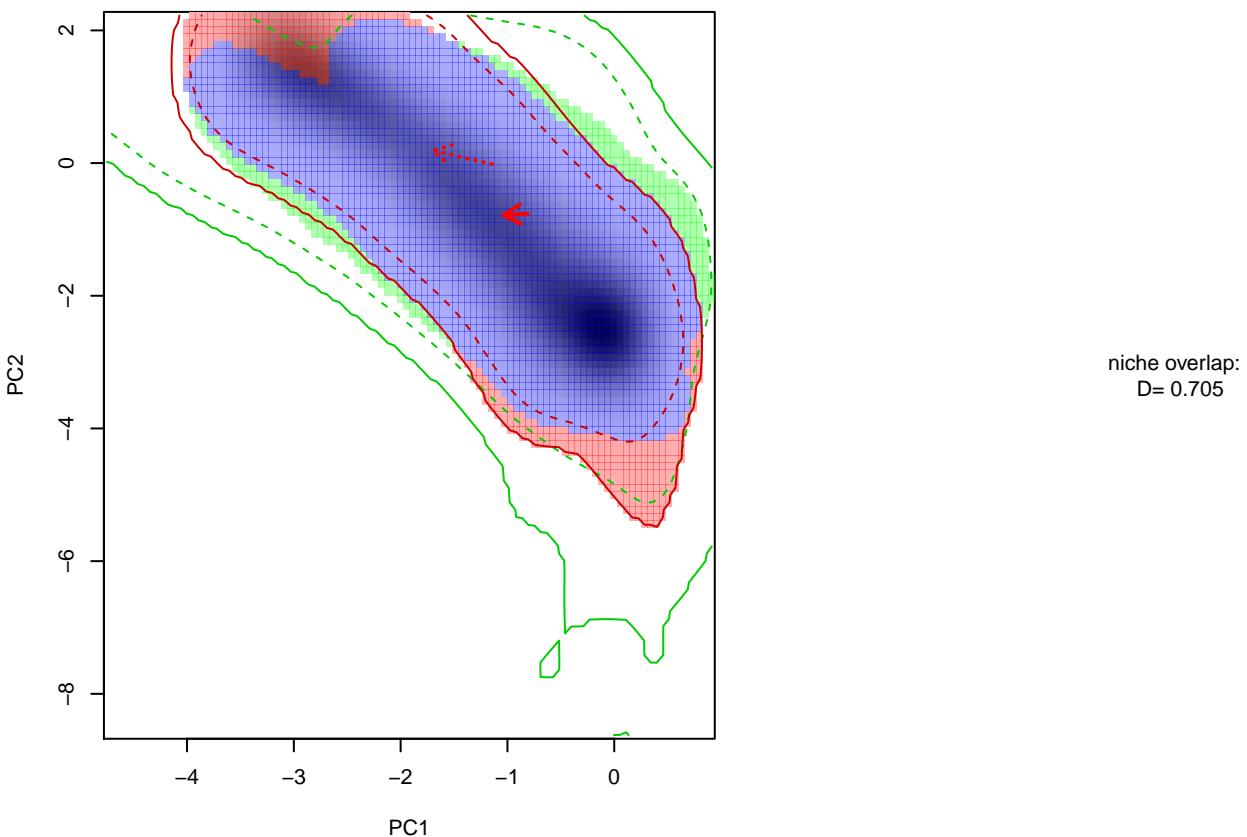
**Similarity 2→1**



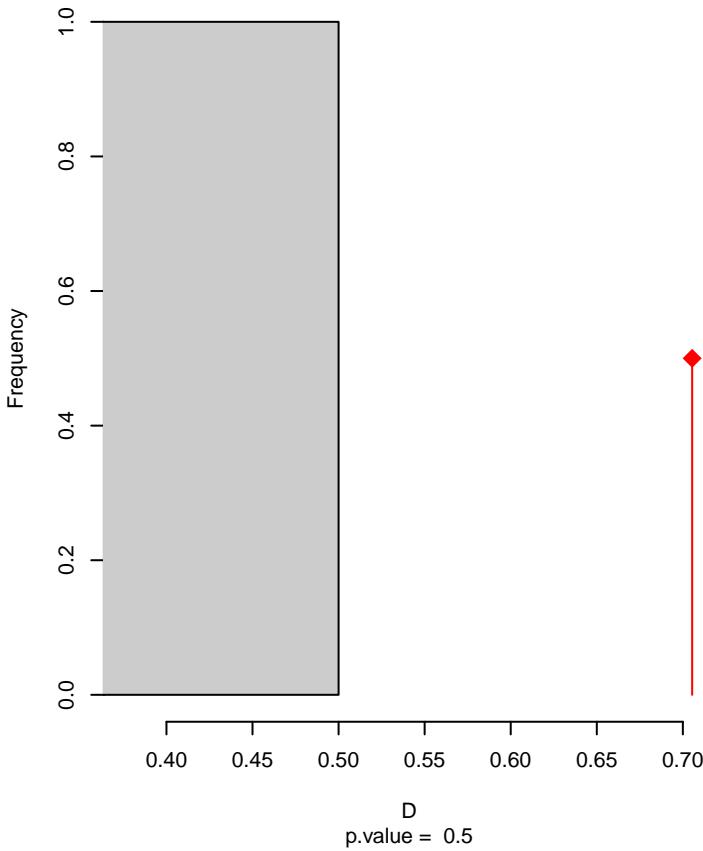
**Similarity 1→2**



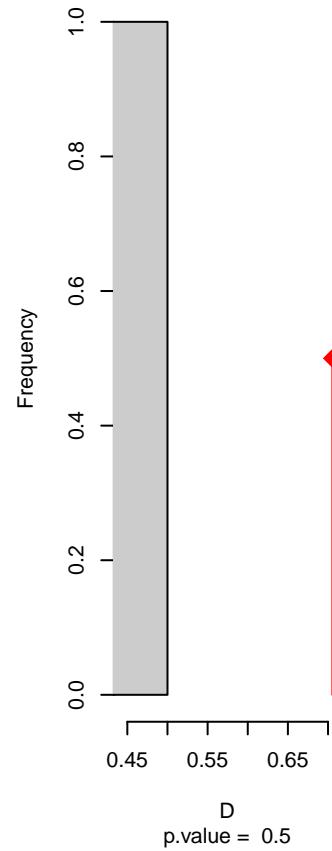
### Cecropis\_senegalensis seasonal overlap



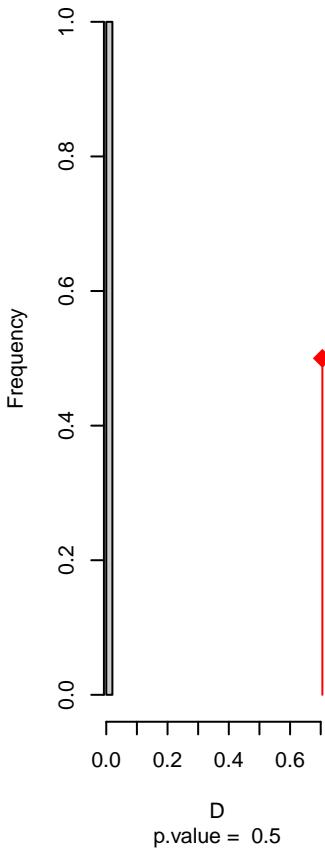
**Equivalency**



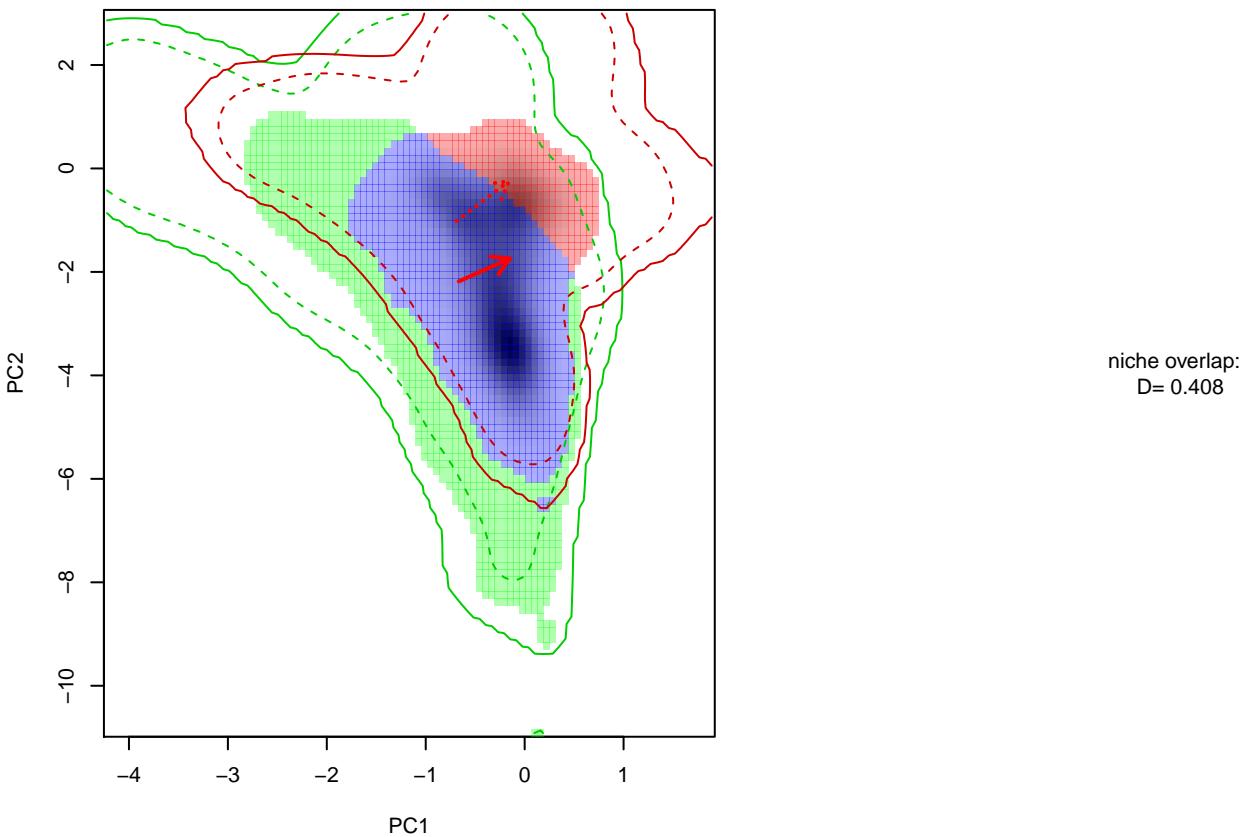
**Similarity 2→1**



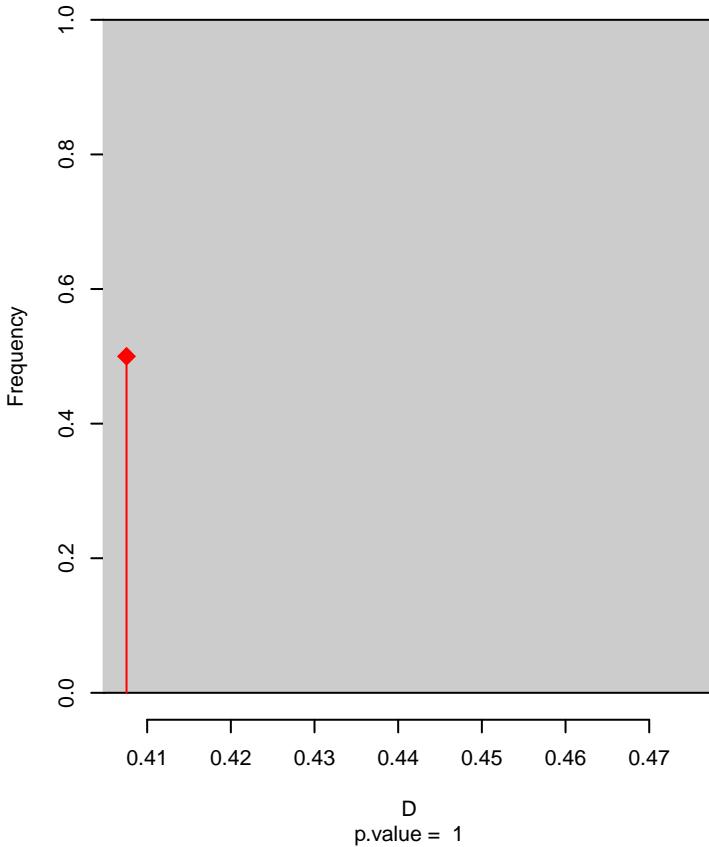
**Similarity 1→2**



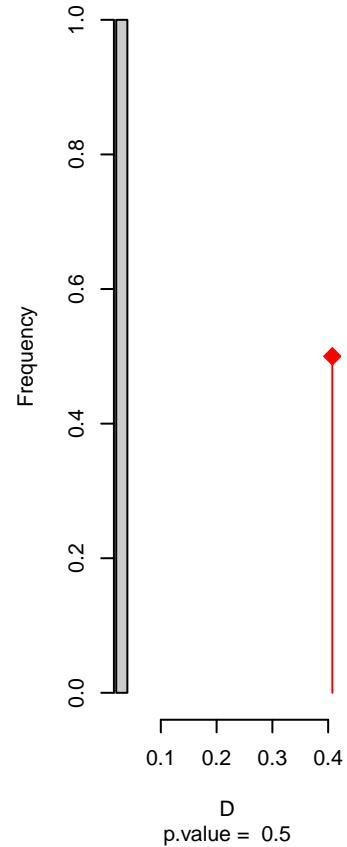
### Cecropis\_striolata seasonal overlap



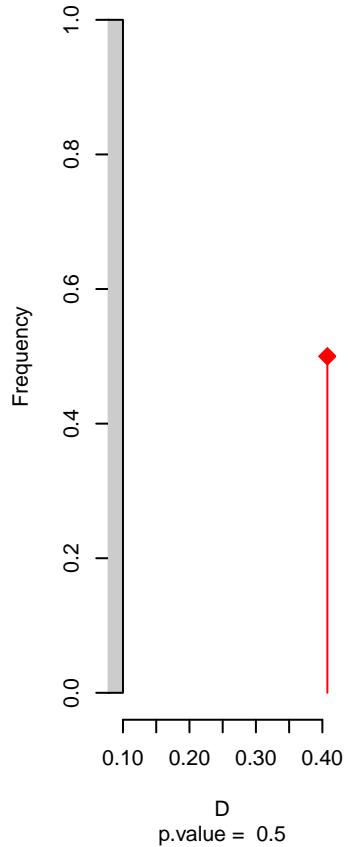
**Equivalency**



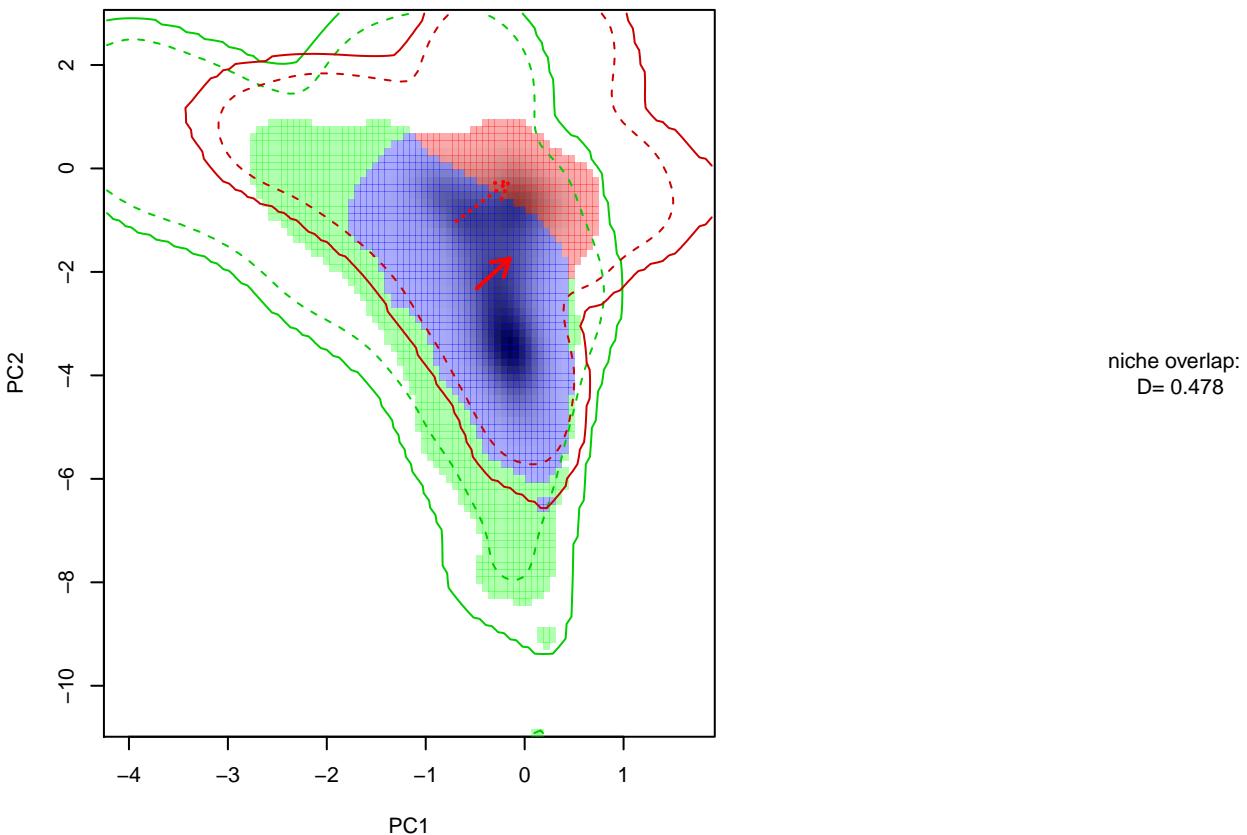
**Similarity 2→1**



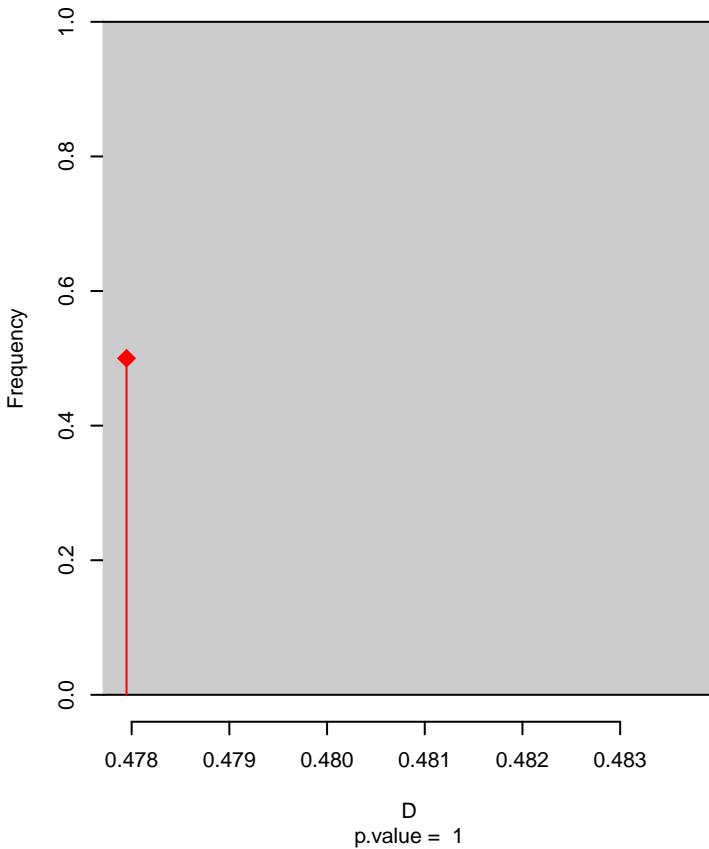
**Similarity 1→2**



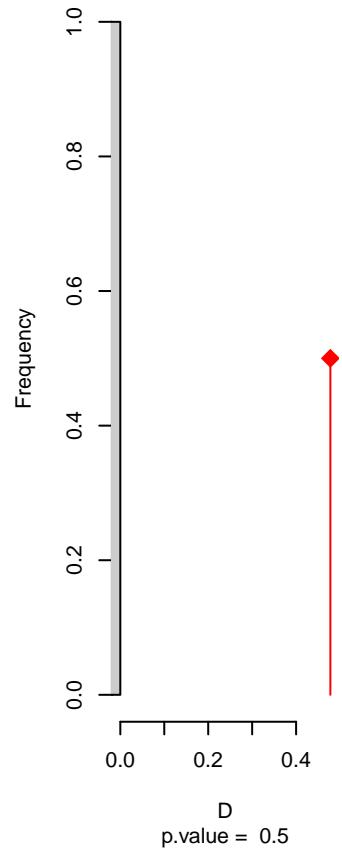
# Cecropis\_striolata seasonal overlap–hypo.br



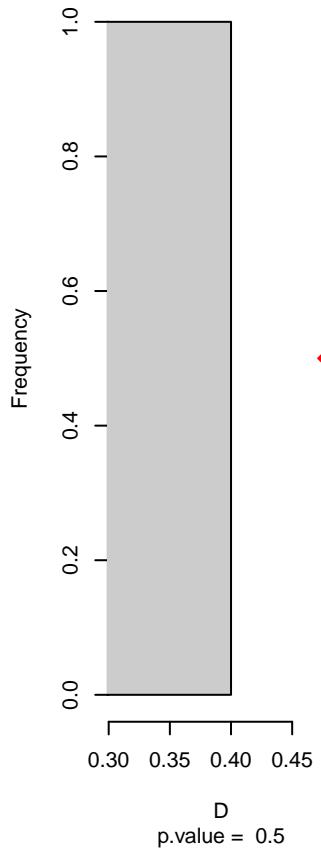
**Equivalency**



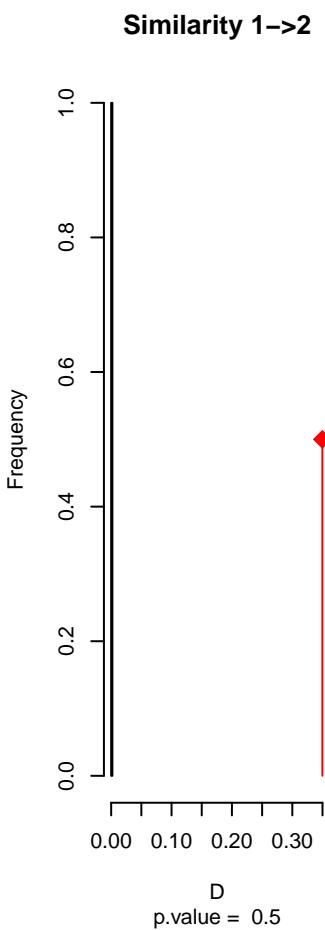
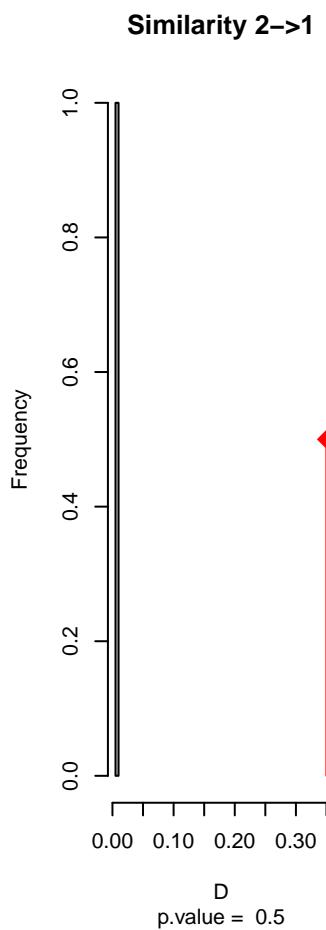
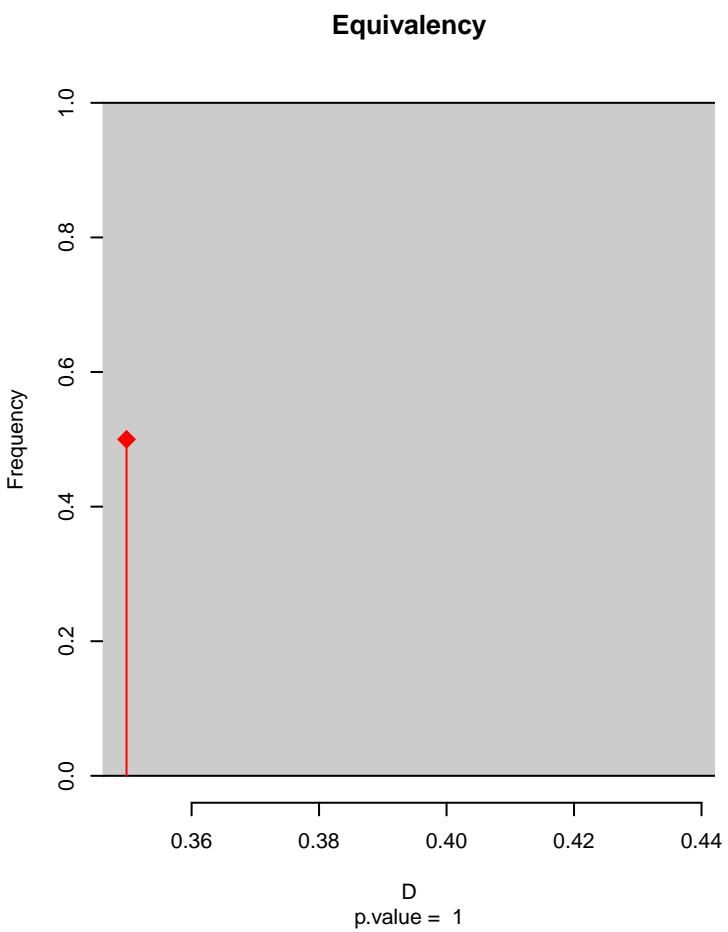
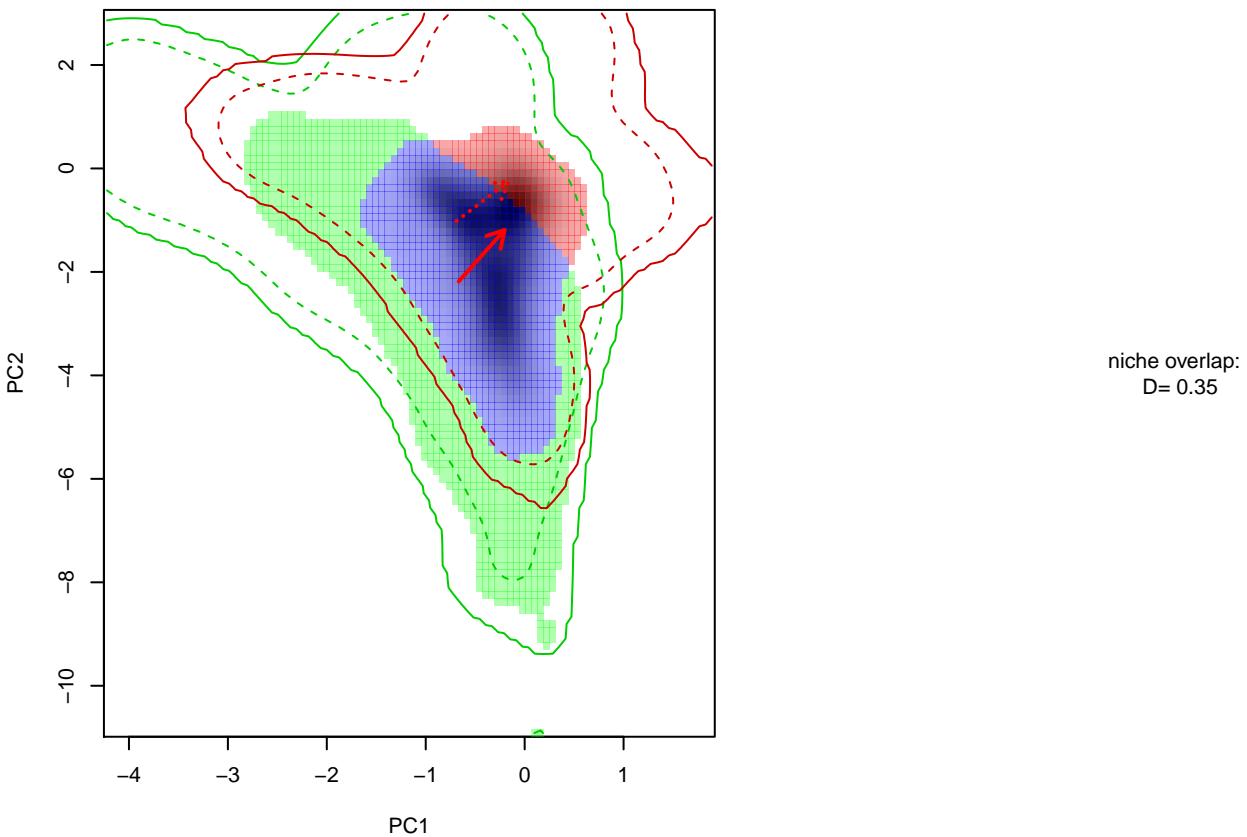
**Similarity 2→1**



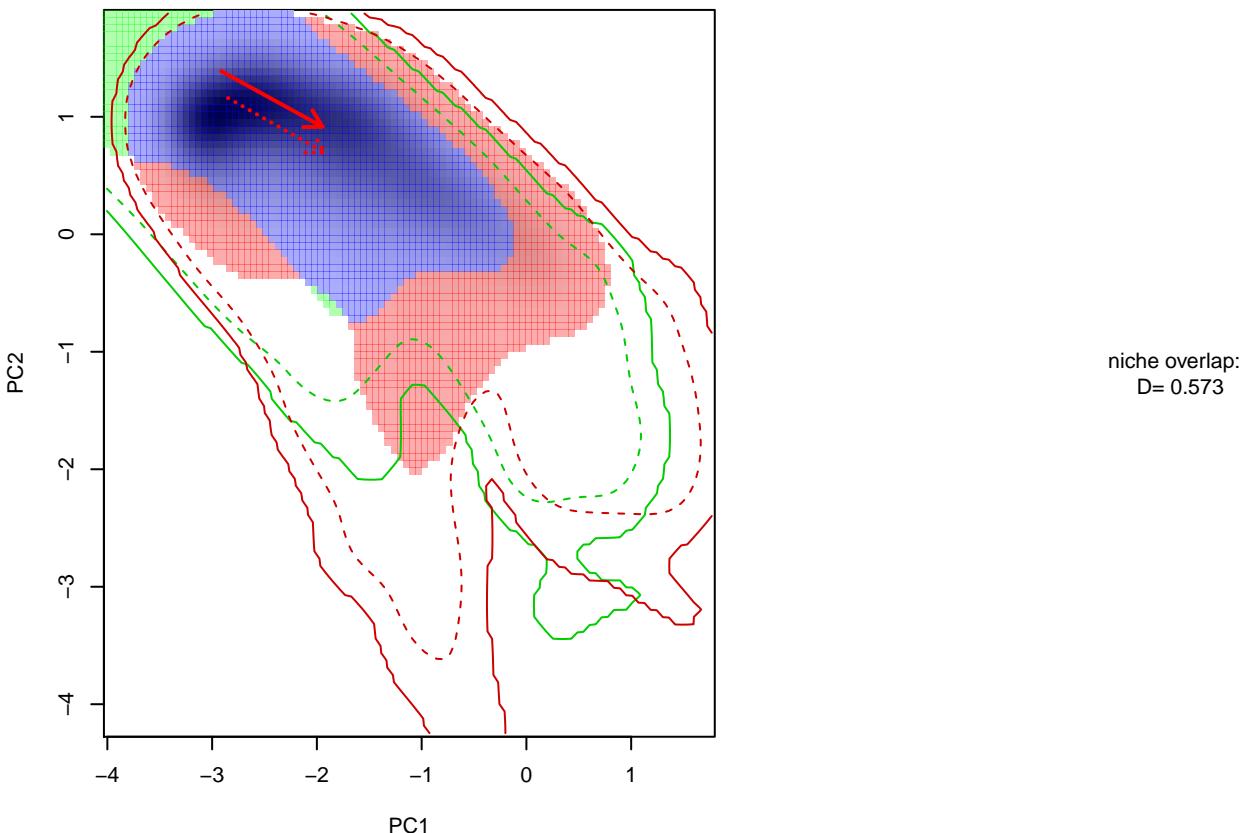
**Similarity 1→2**



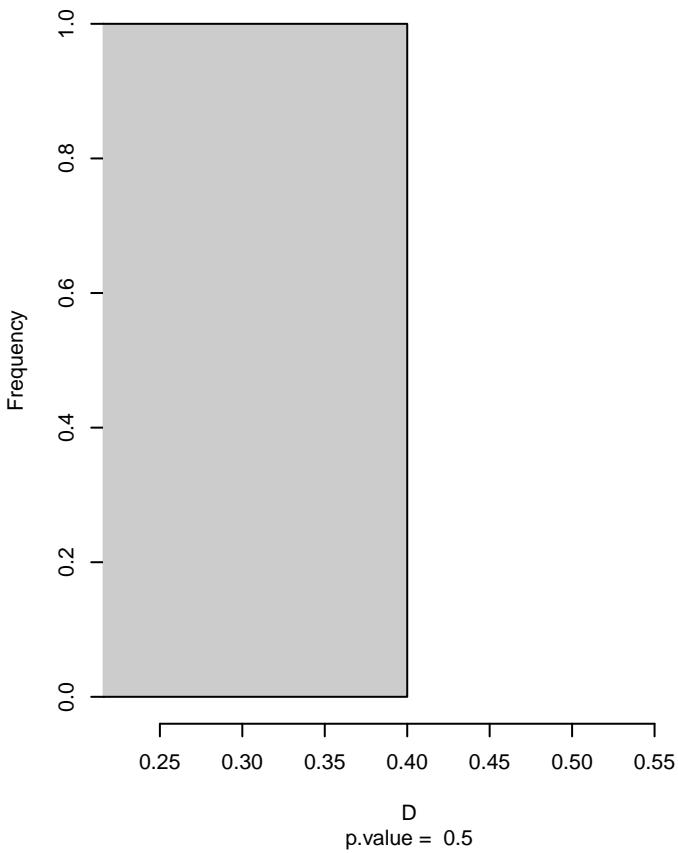
# Cecropis\_striolata seasonal overlap–hypo wi



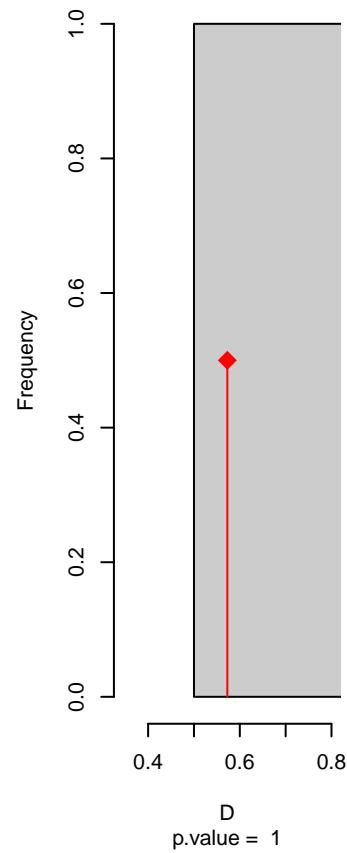
### Cheramoeca\_leucosterna seasonal overlap



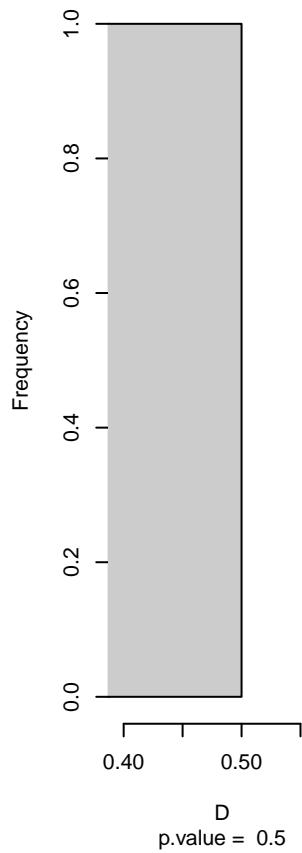
**Equivalency**



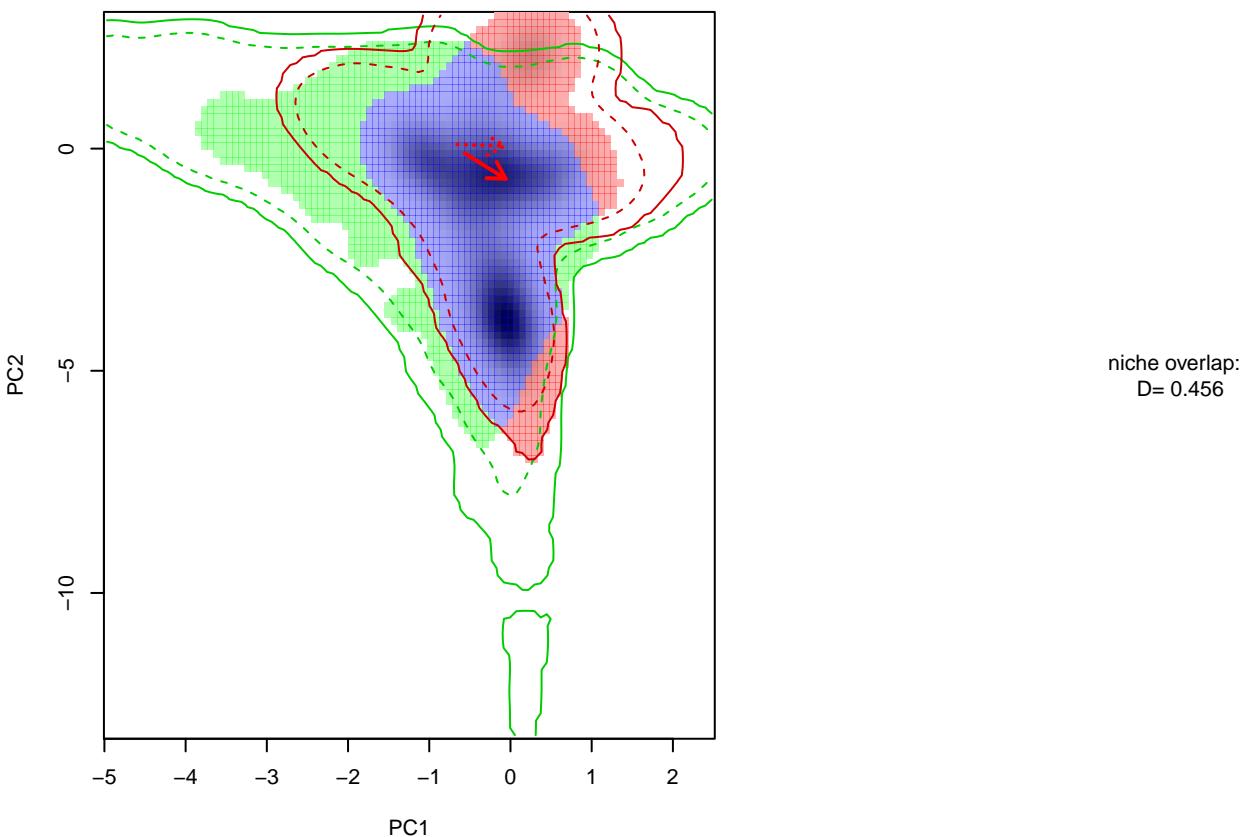
**Similarity 2→1**



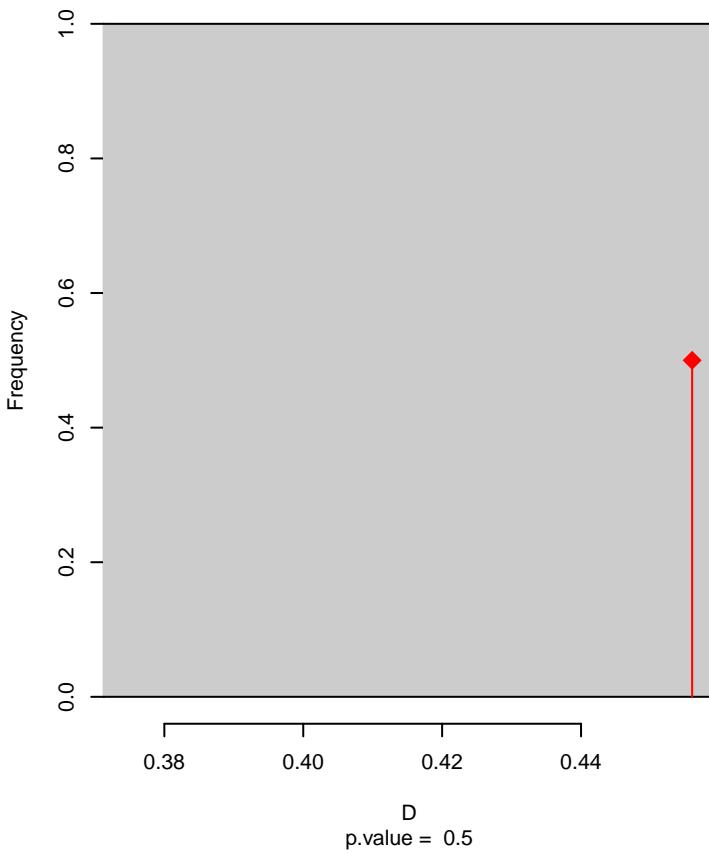
**Similarity 1→2**



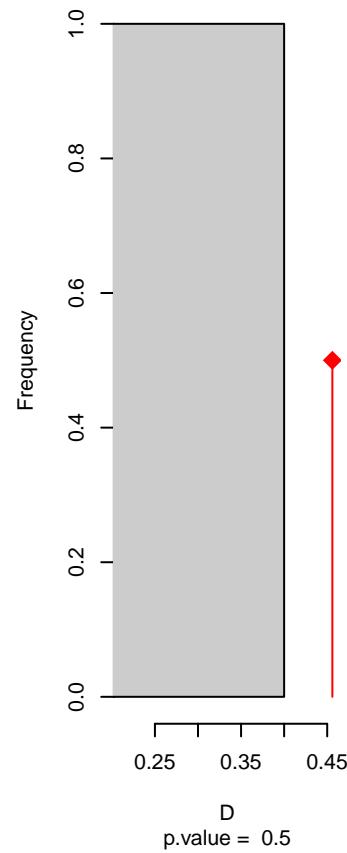
### Delichon\_dasyus seasonal overlap



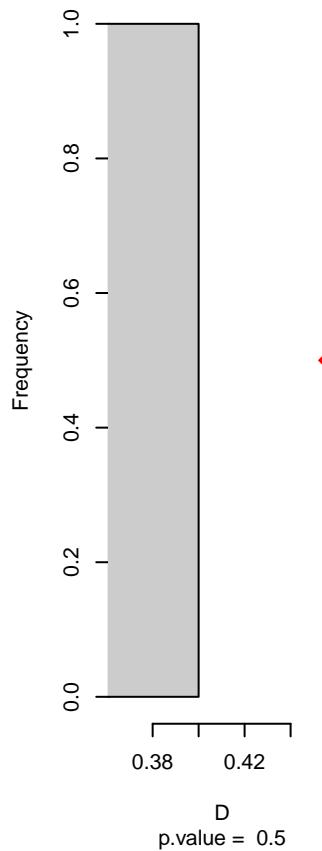
**Equivalency**



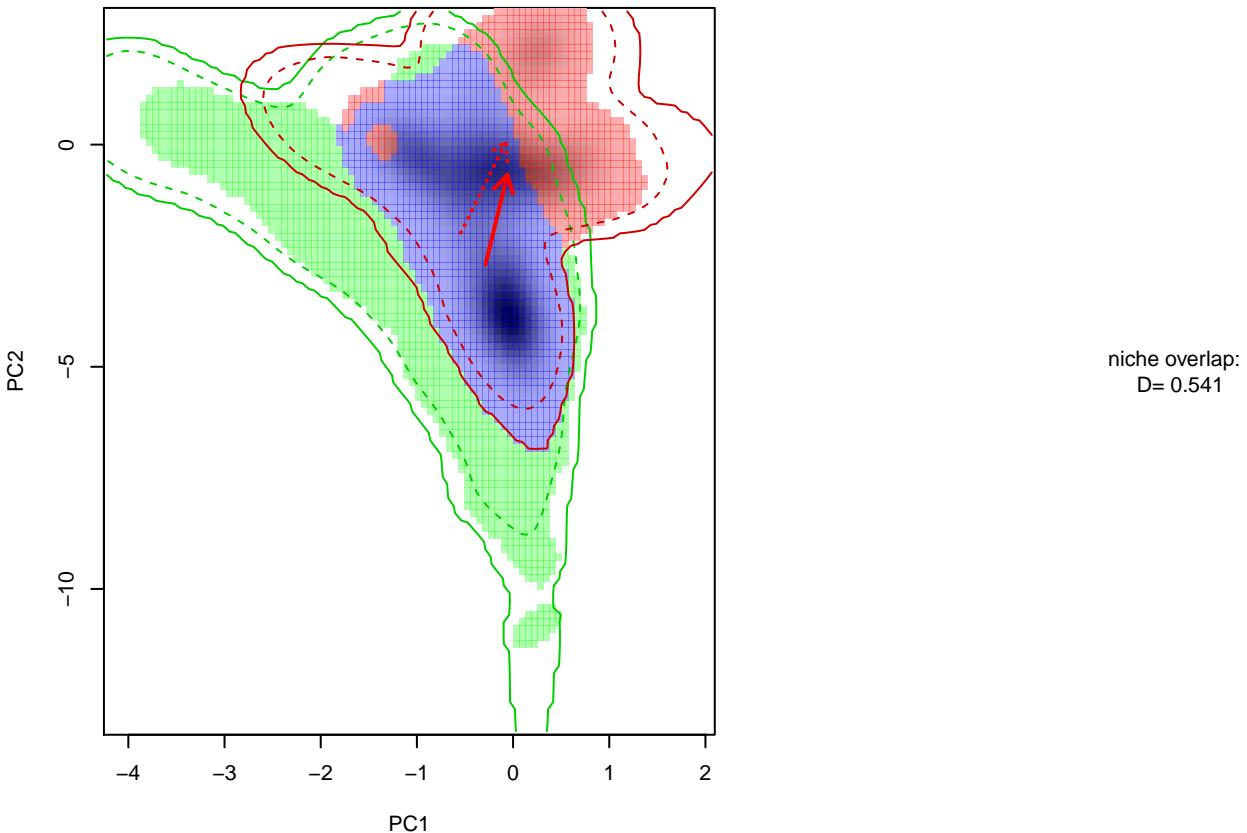
**Similarity 2→1**



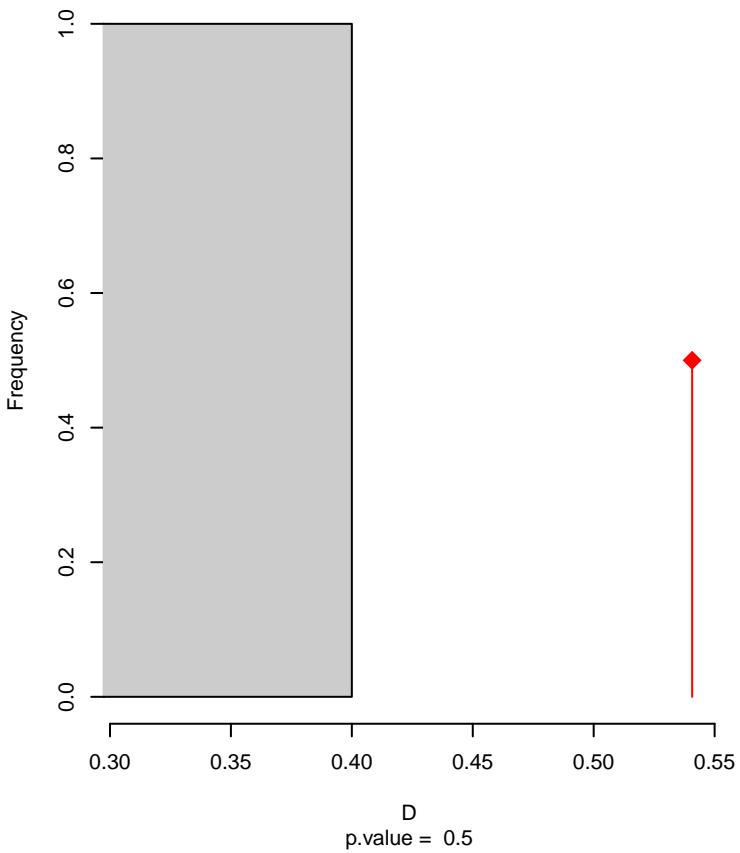
**Similarity 1→2**



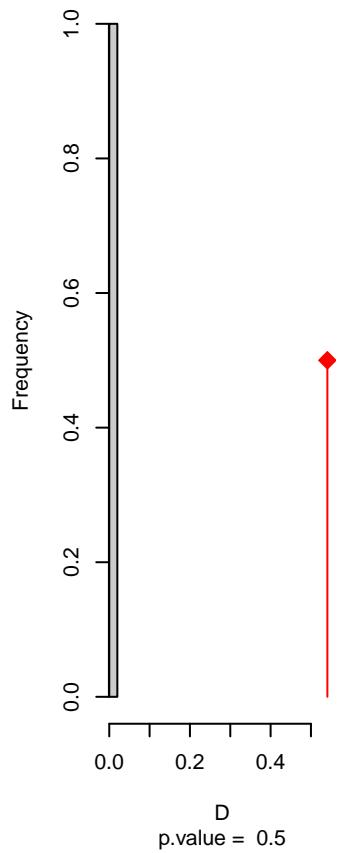
# **Delichon\_dasypus seasonal overlap-hypo.br**



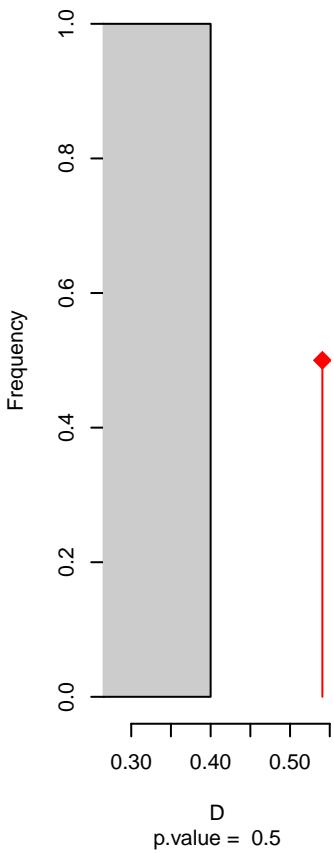
**Equivalency**



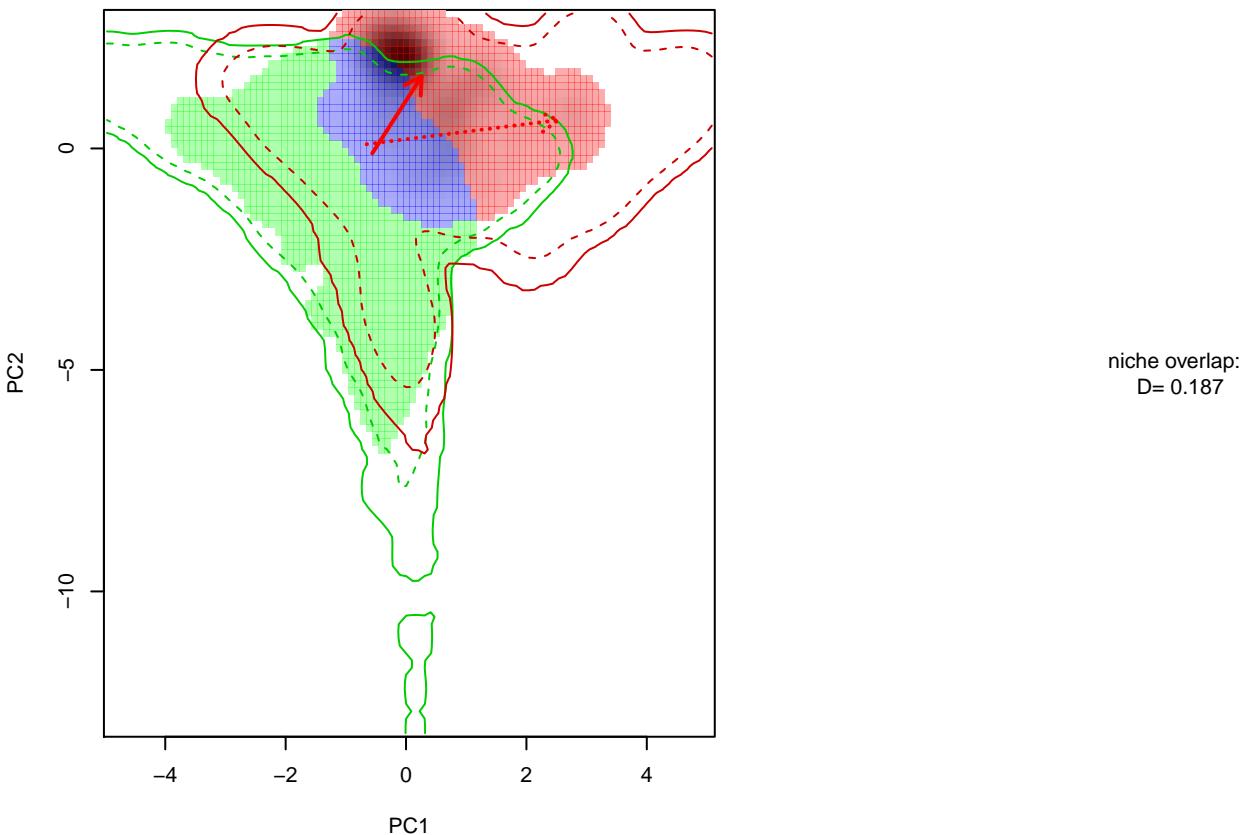
**Similarity 2→1**



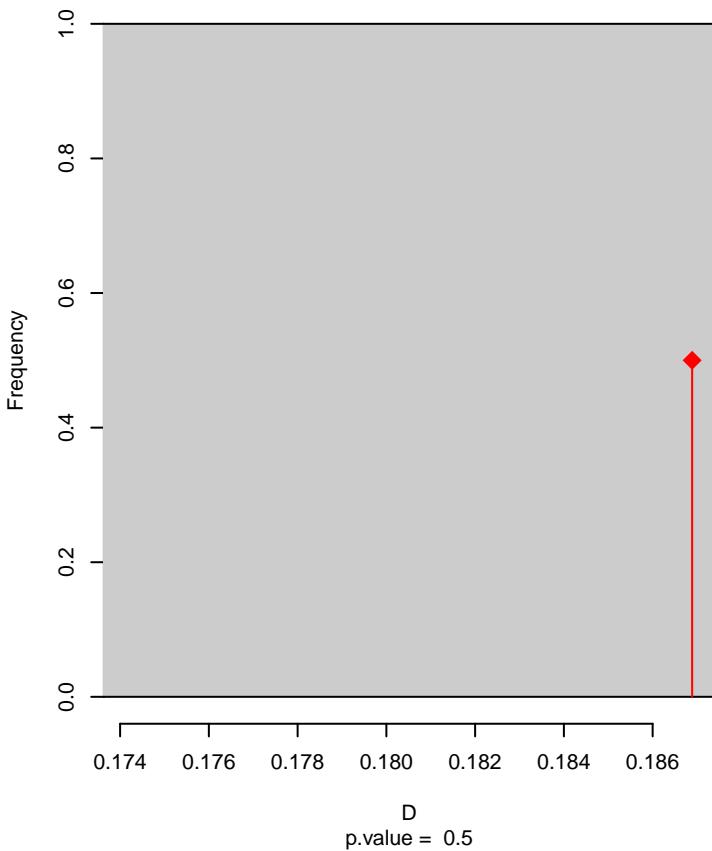
**Similarity 1→2**



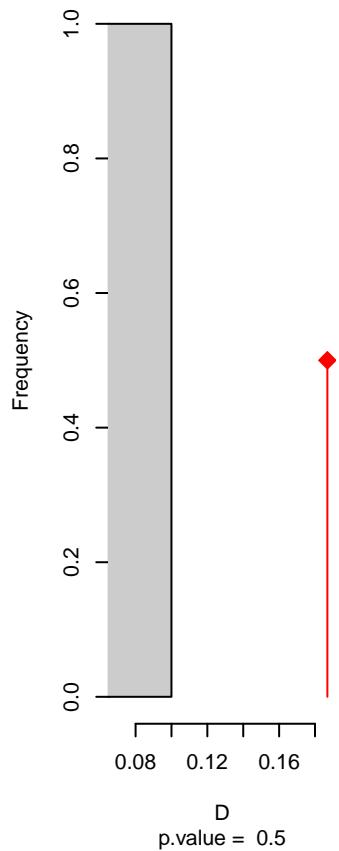
# Delichon\_dasypus seasonal overlap–hypo wi



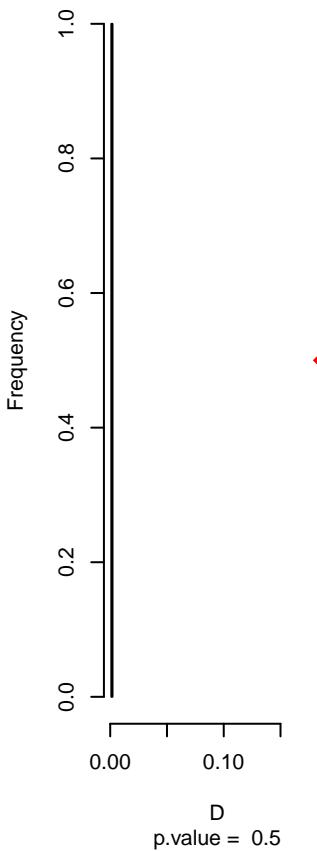
**Equivalency**



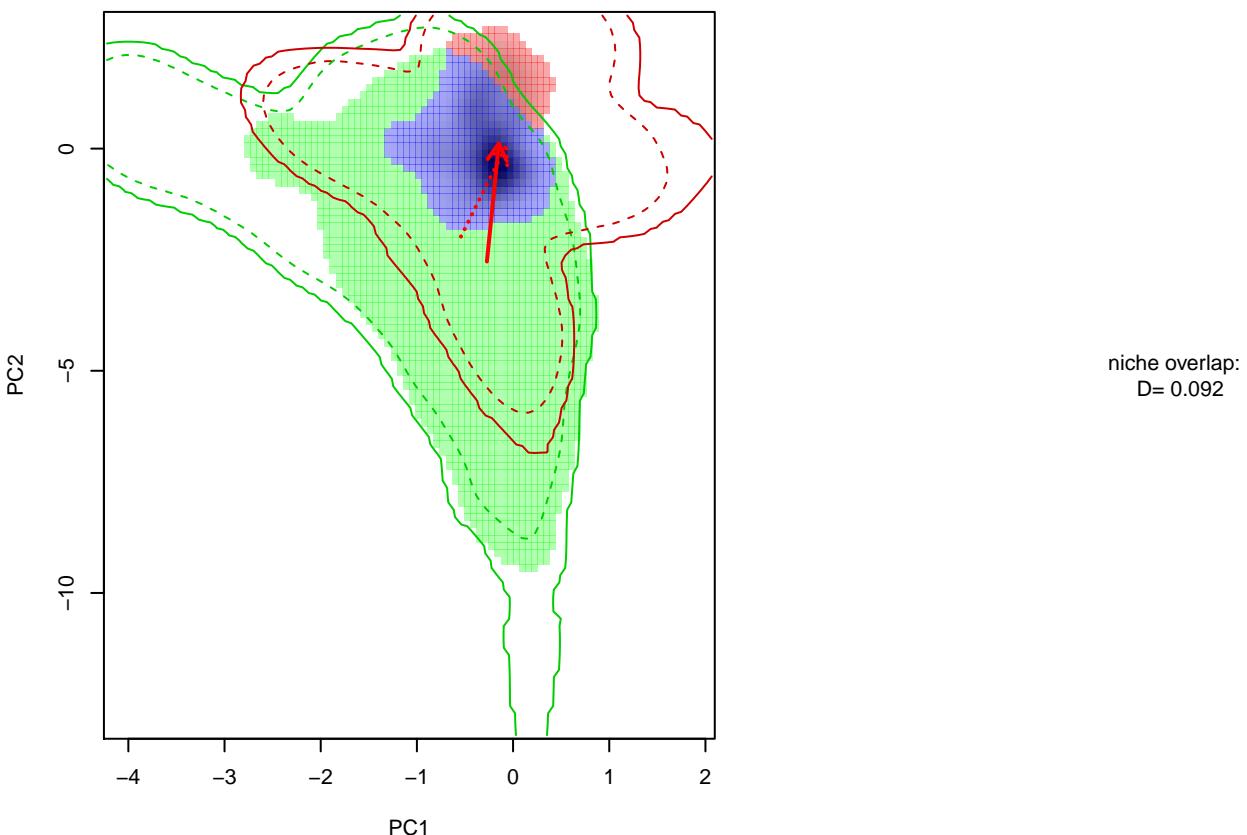
**Similarity 2→1**



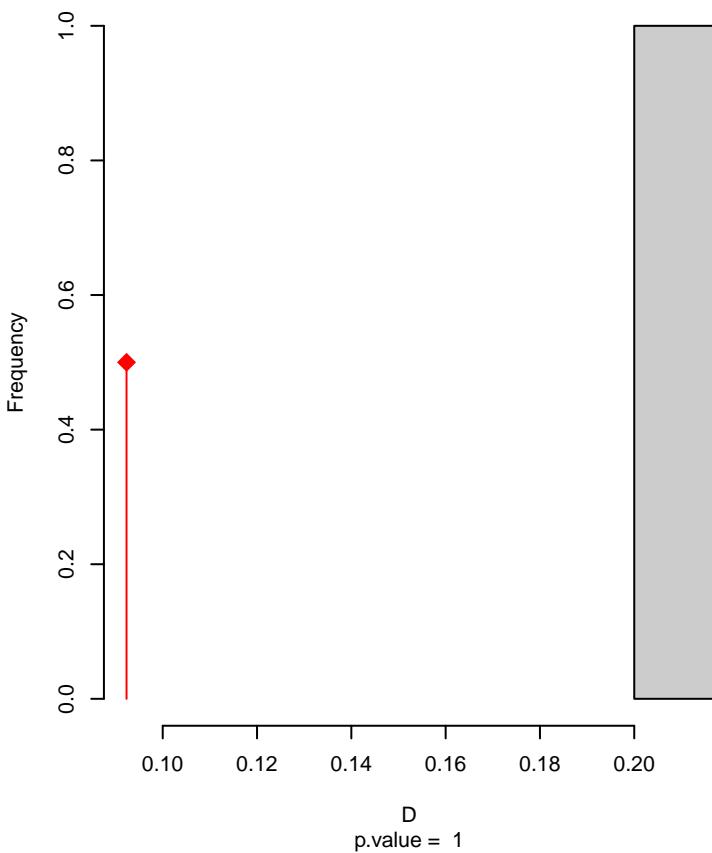
**Similarity 1→2**



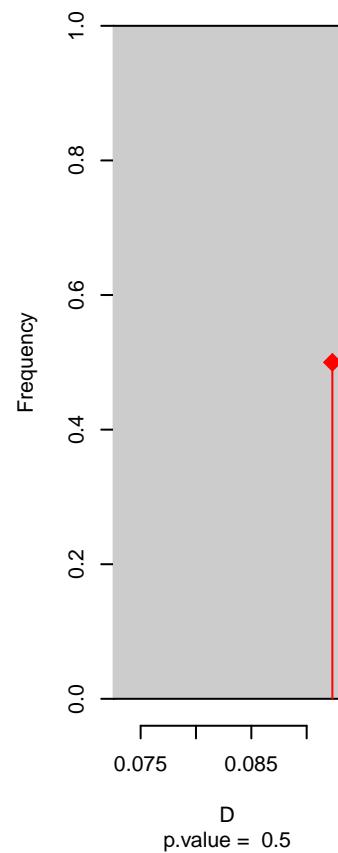
### *Delichon\_nipalense* seasonal overlap



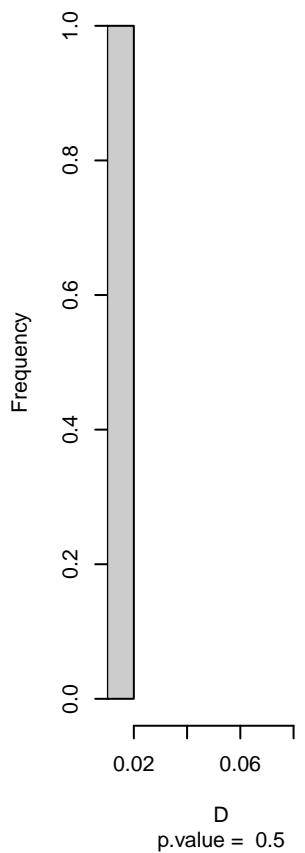
**Equivalency**



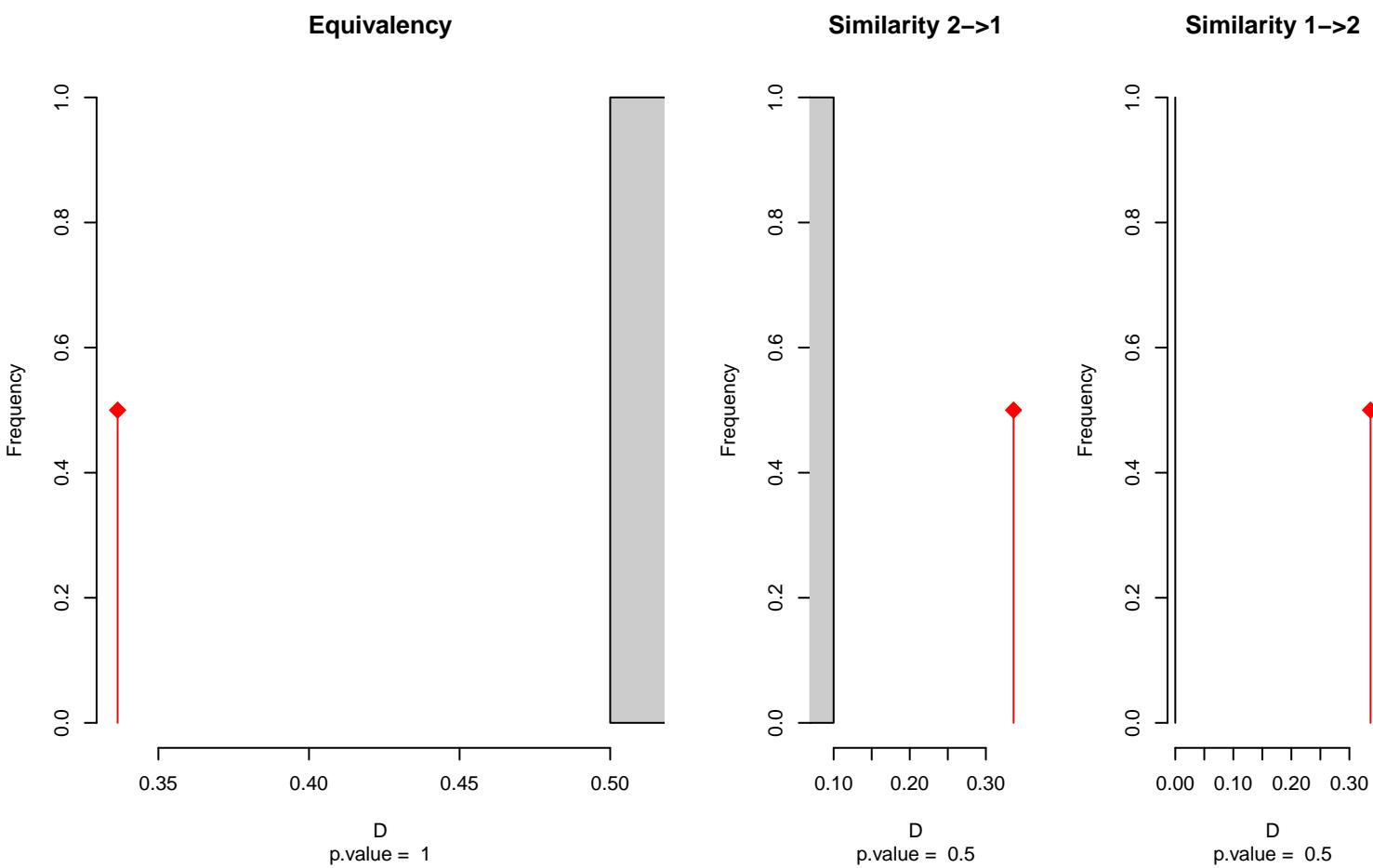
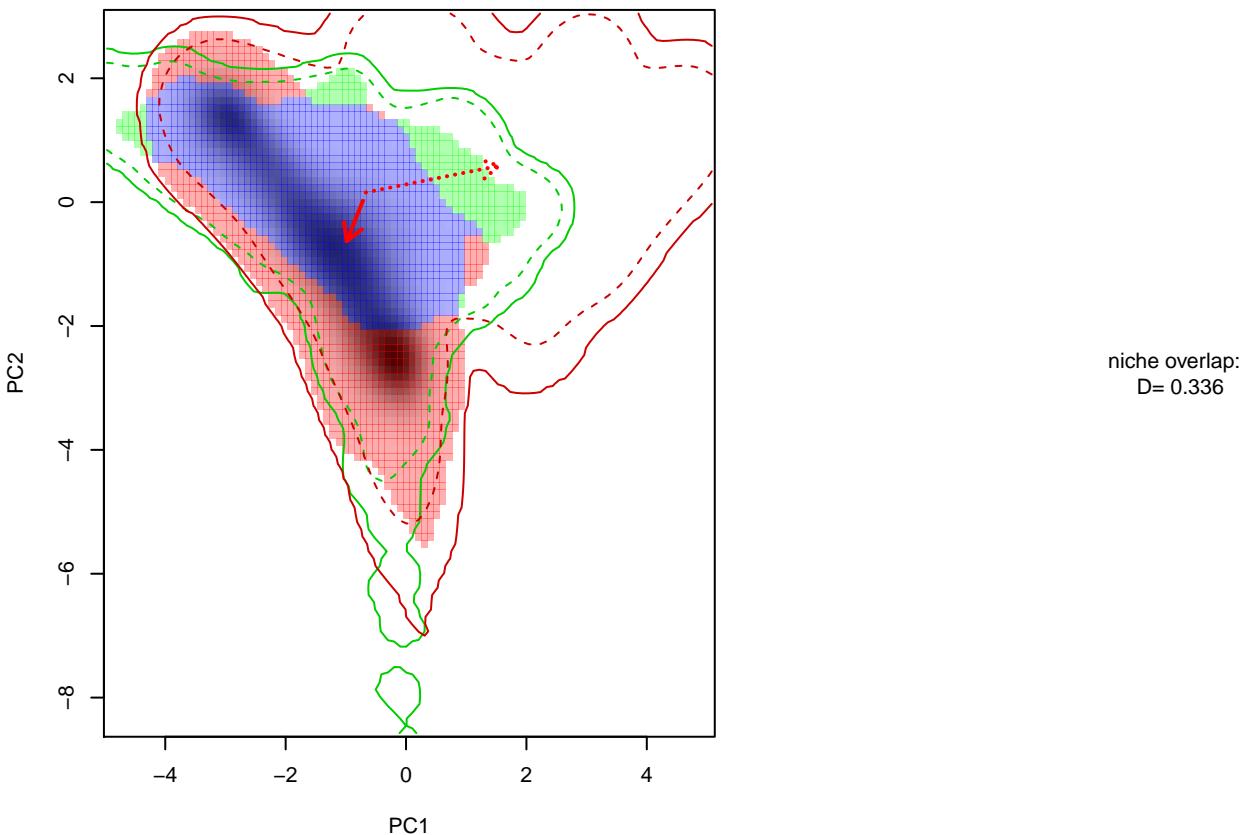
**Similarity 2→1**



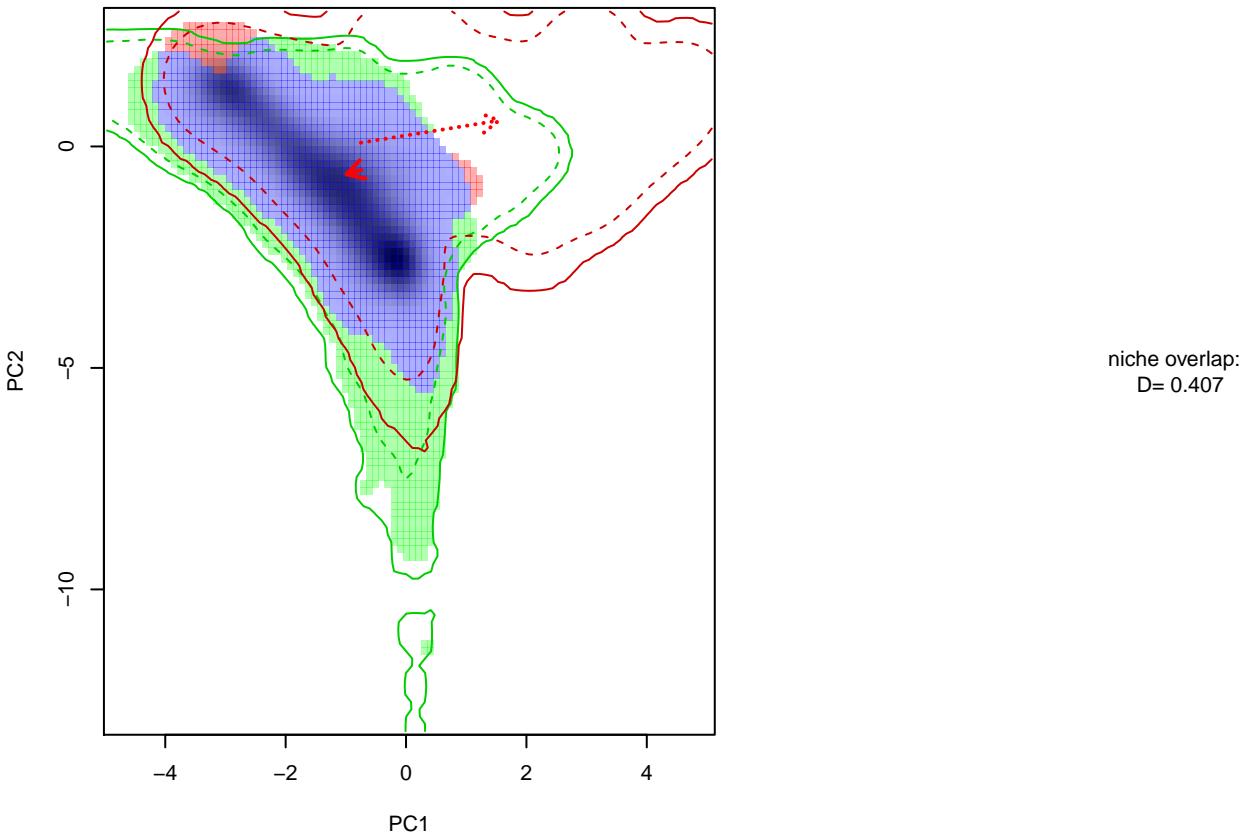
**Similarity 1→2**



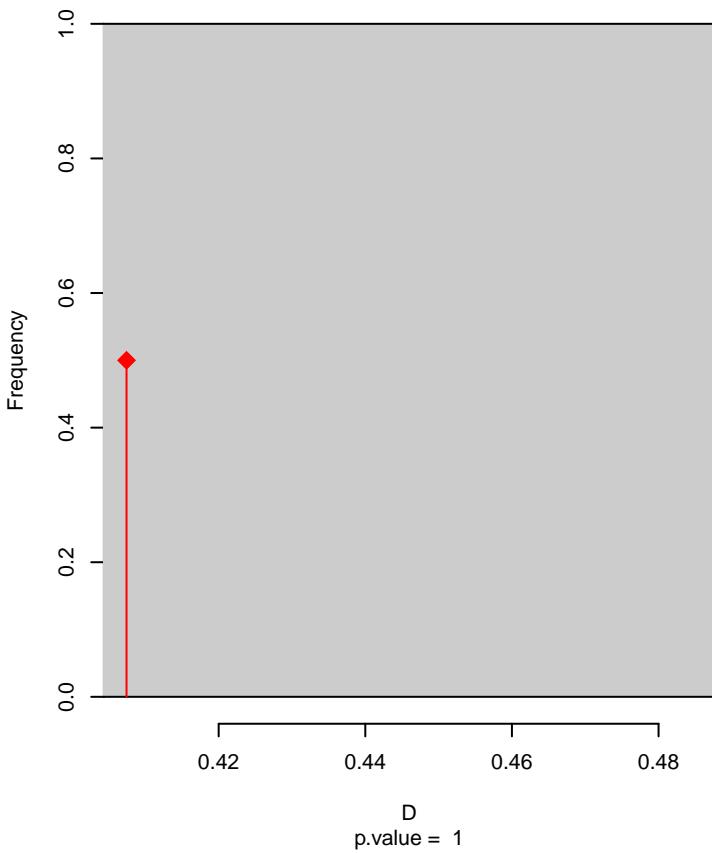
### Delichon\_urbicum seasonal overlap



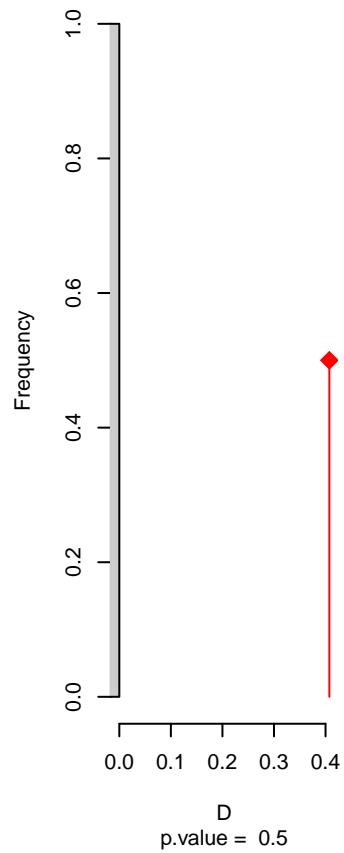
# *Delichon urbicum* seasonal overlap–hypo.br



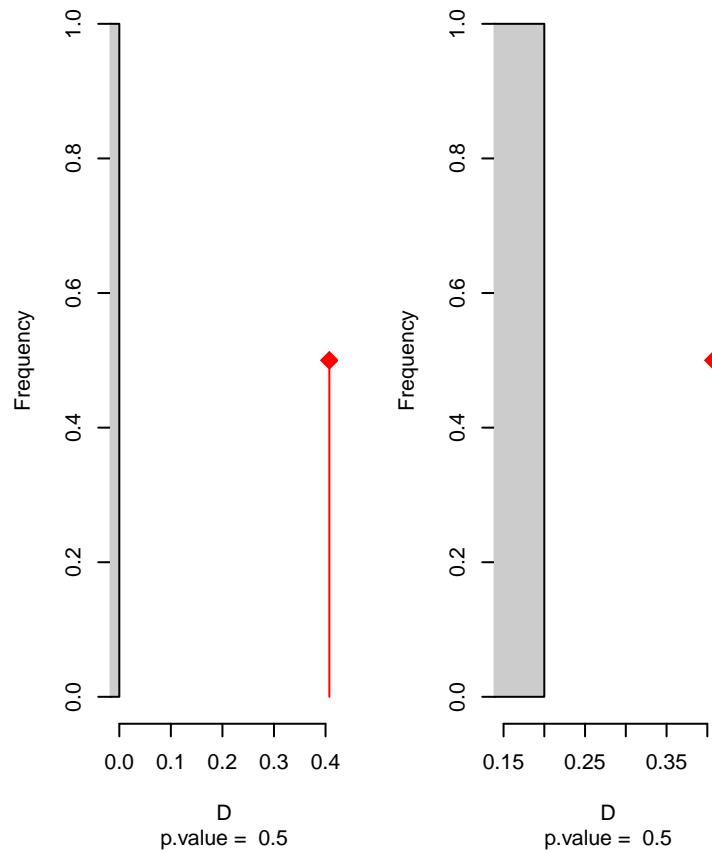
**Equivalency**



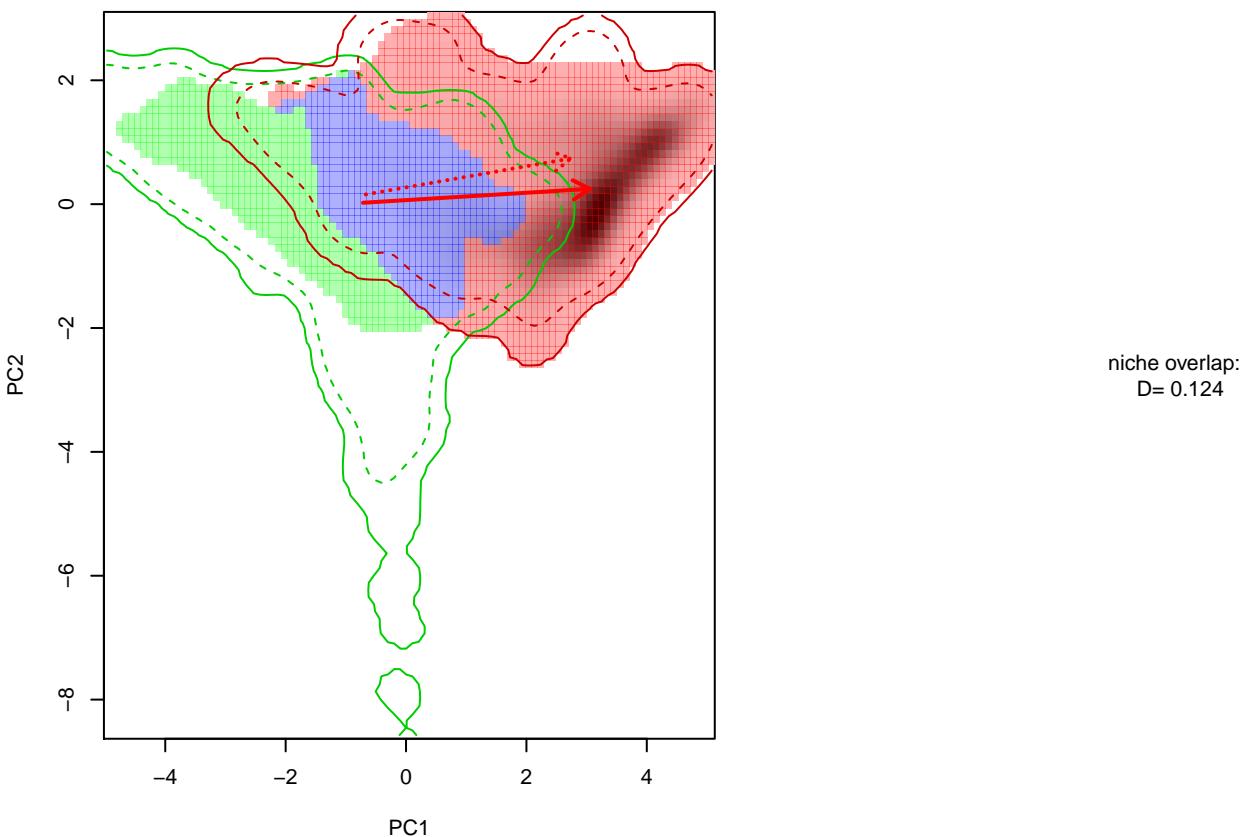
**Similarity 2→1**



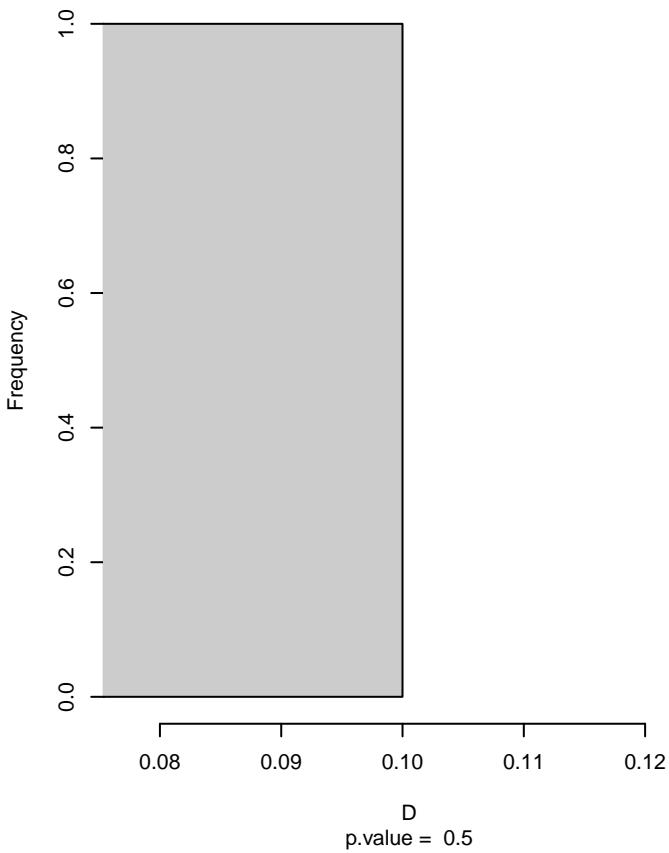
**Similarity 1→2**



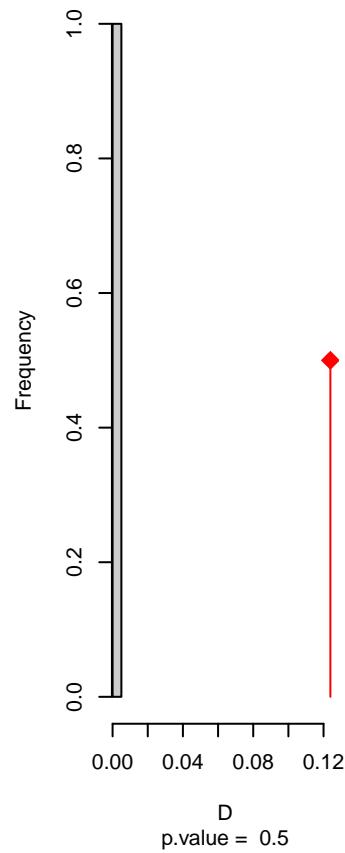
# *Delichon urbicum* seasonal overlap–hypo wi



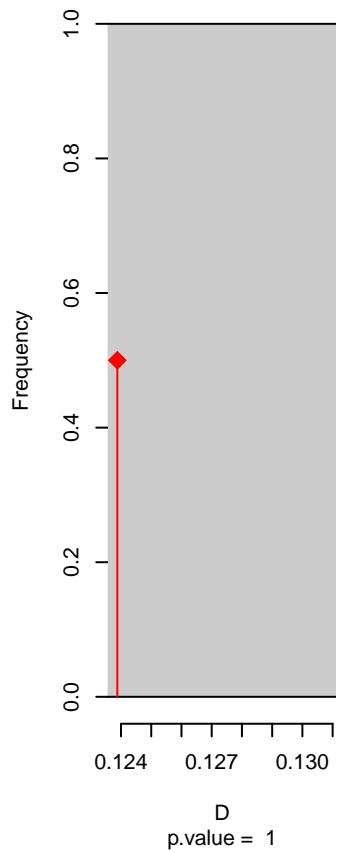
**Equivalency**



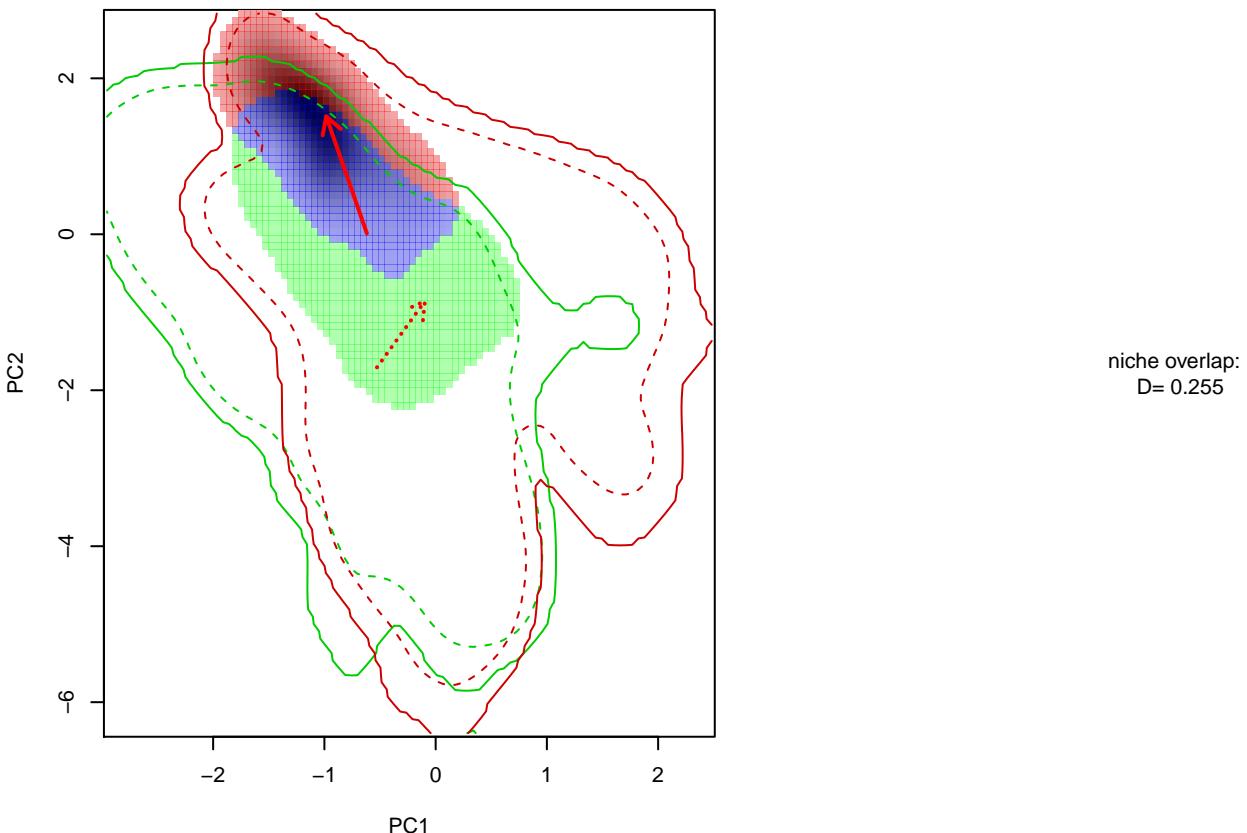
**Similarity 2→1**



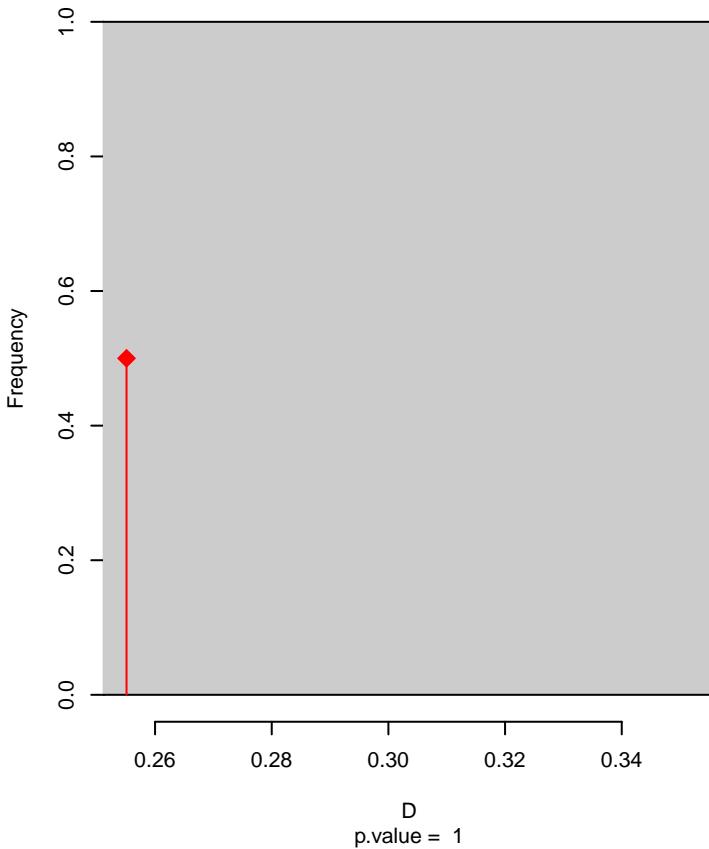
**Similarity 1→2**



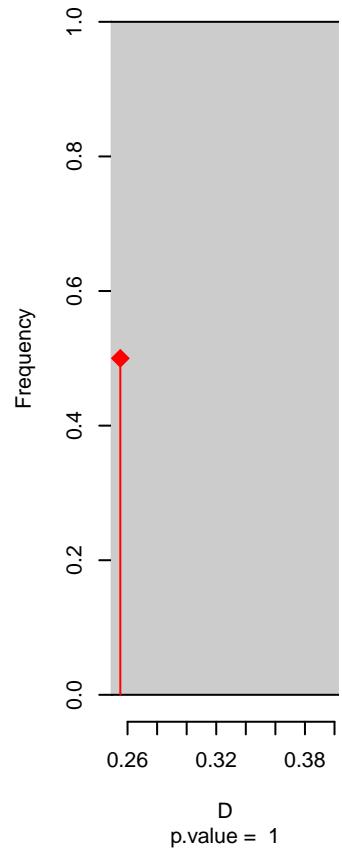
### Haplochelidon\_andecola seasonal overlap



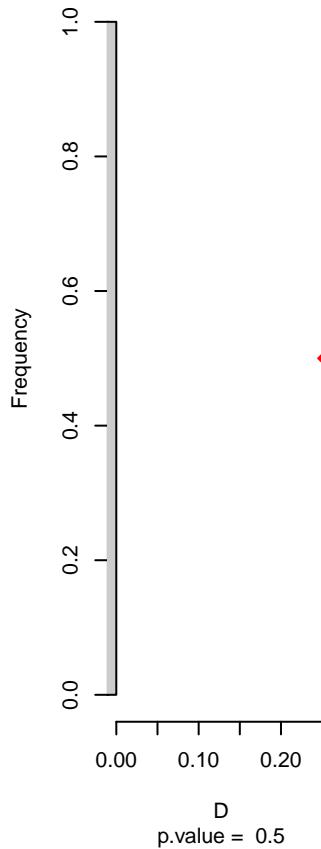
**Equivalency**



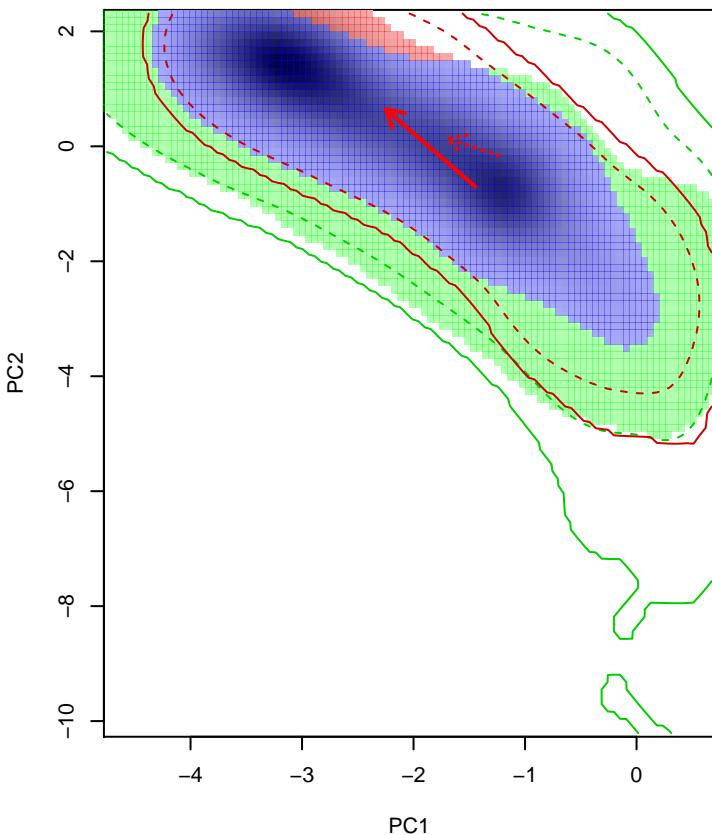
**Similarity 2→1**



**Similarity 1→2**

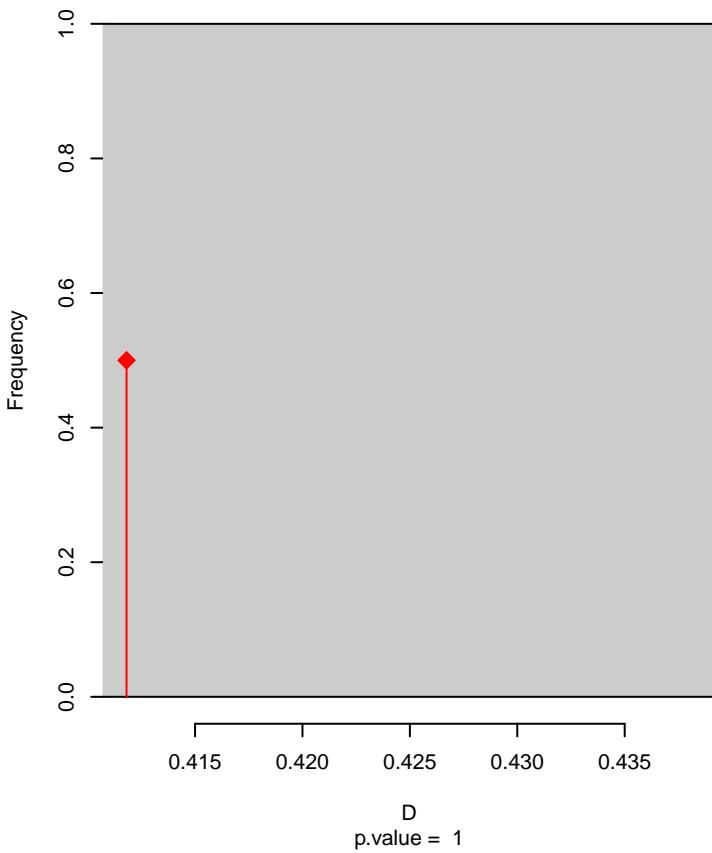


### Hirundo\_aethiopica seasonal overlap



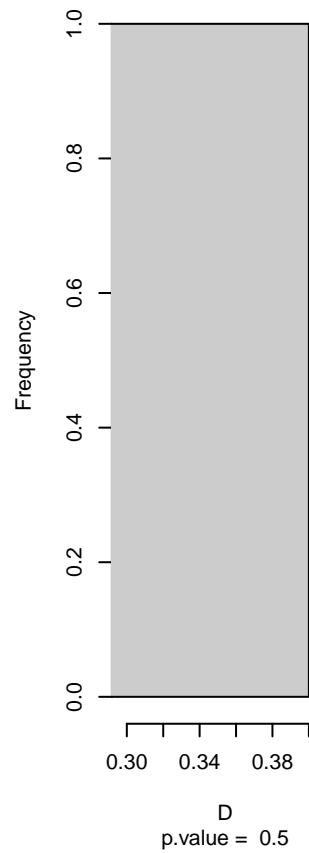
niche overlap:  
 $D = 0.412$

**Equivalency**



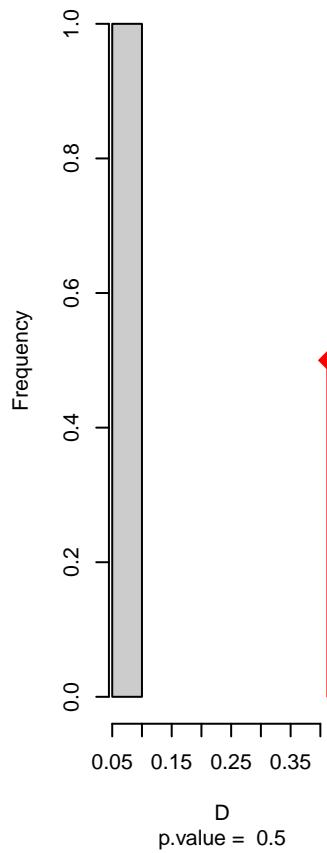
$D$   
p.value = 1

**Similarity 2→1**



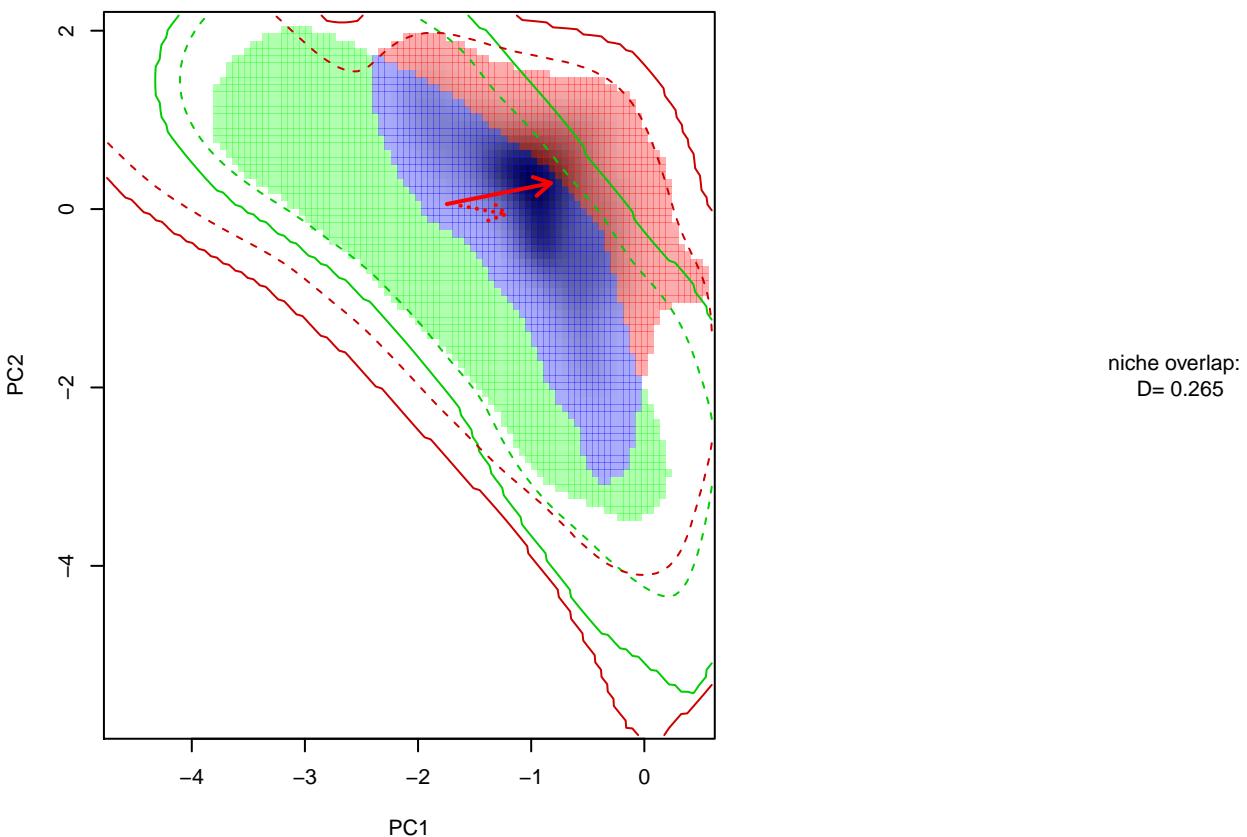
$D$   
p.value = 0.5

**Similarity 1→2**

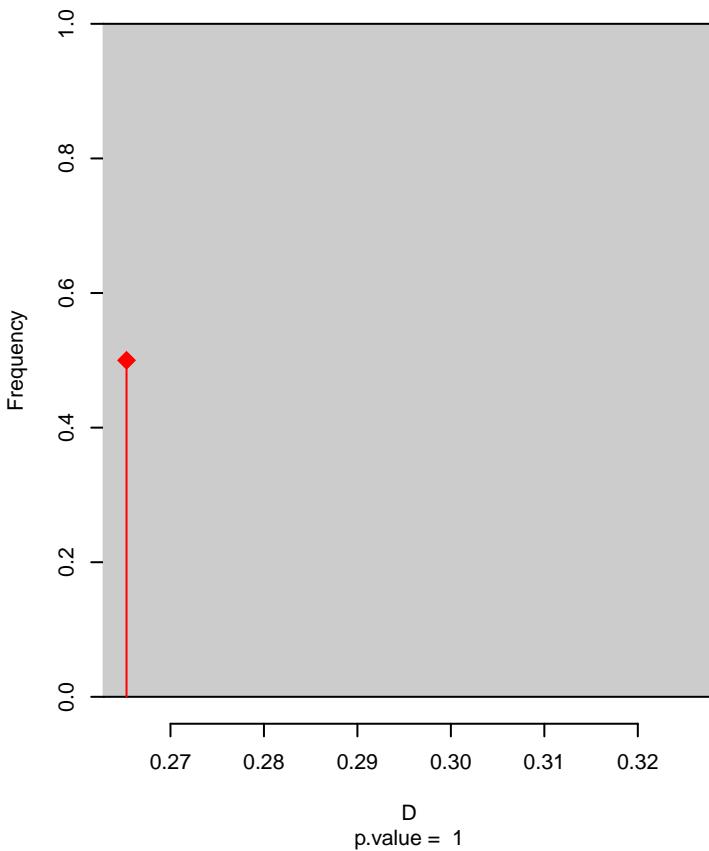


$D$   
p.value = 0.5

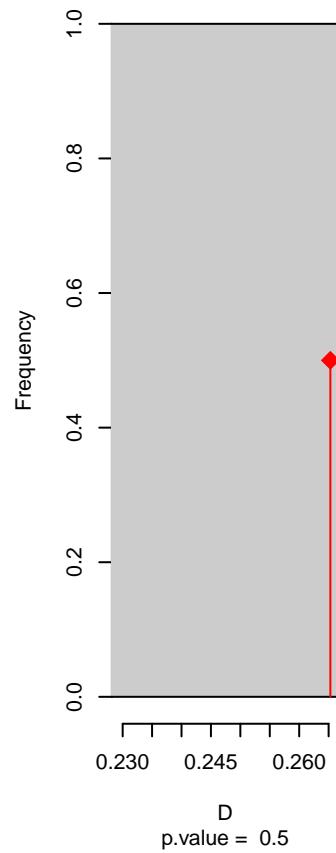
### Hirundo\_albigularis seasonal overlap



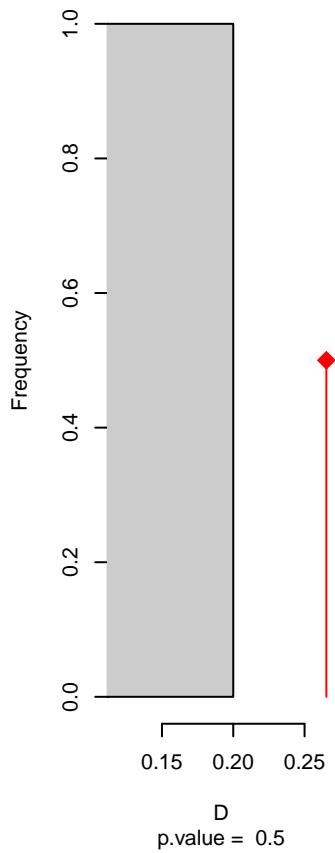
**Equivalency**



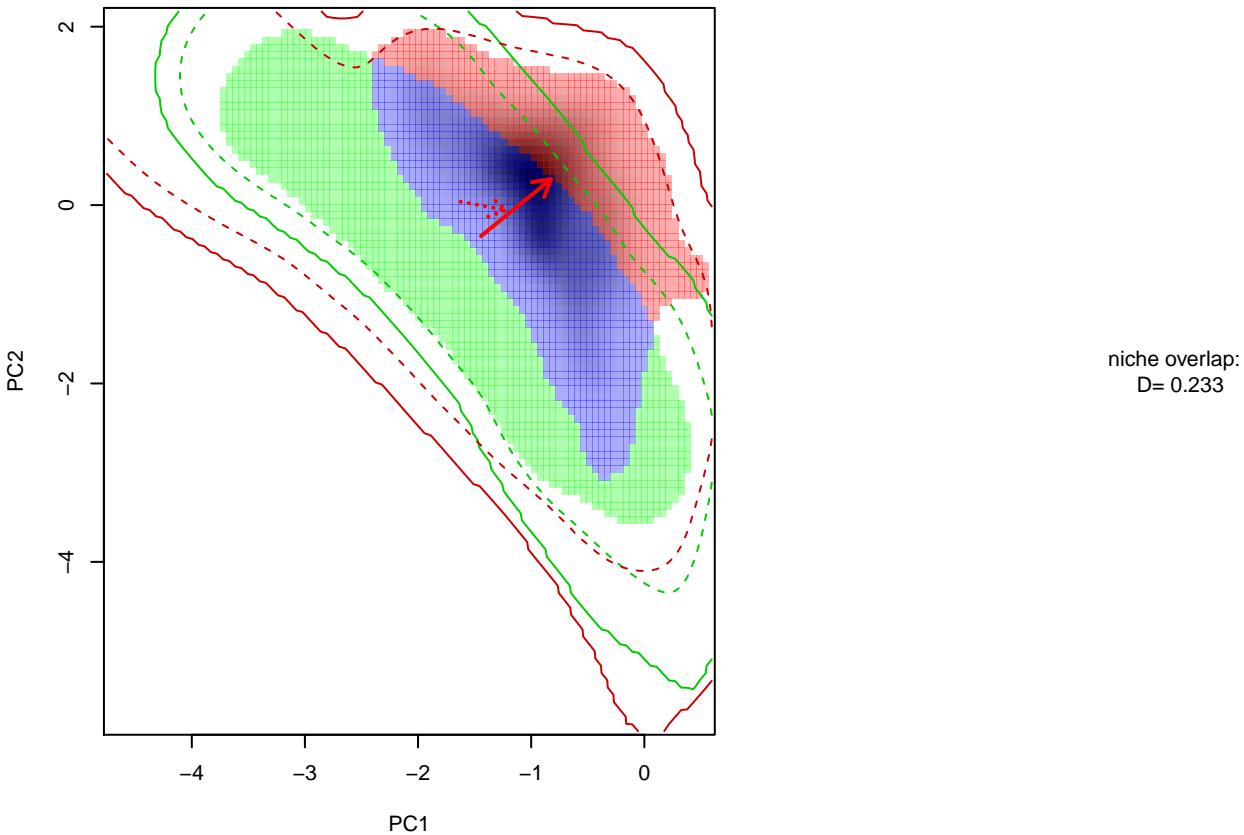
**Similarity 2→1**



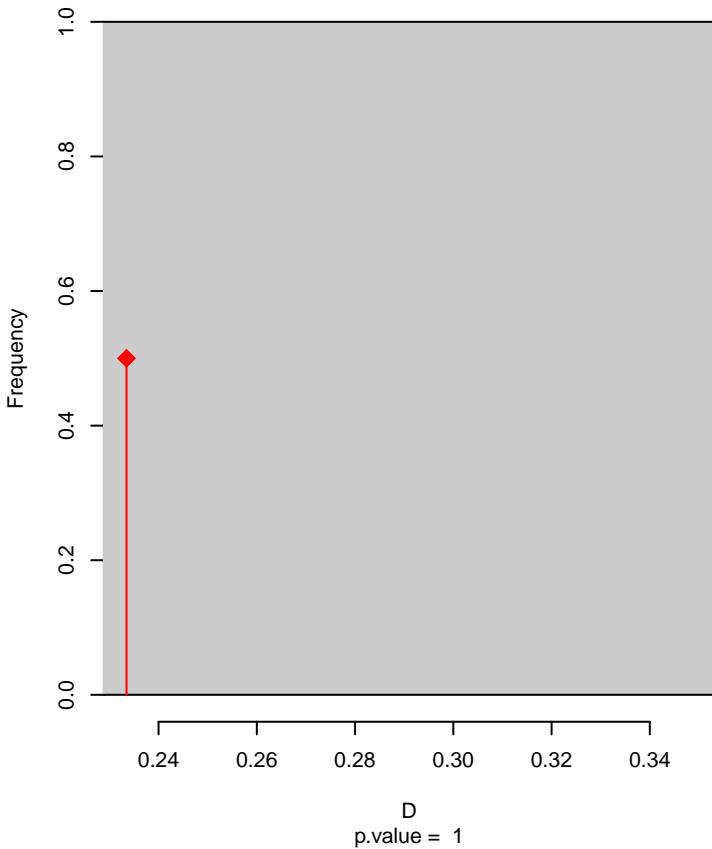
**Similarity 1→2**



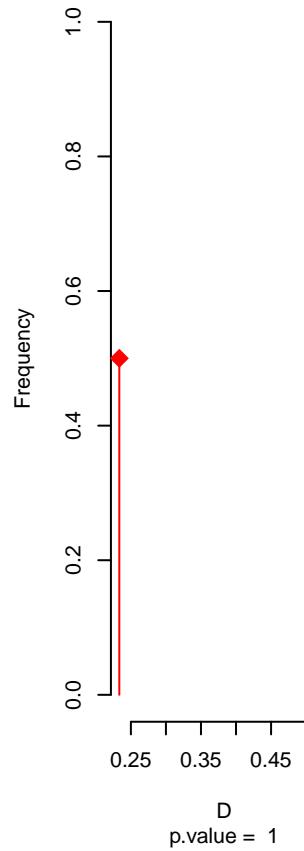
# Hirundo\_albigularis seasonal overlap-hypo.br



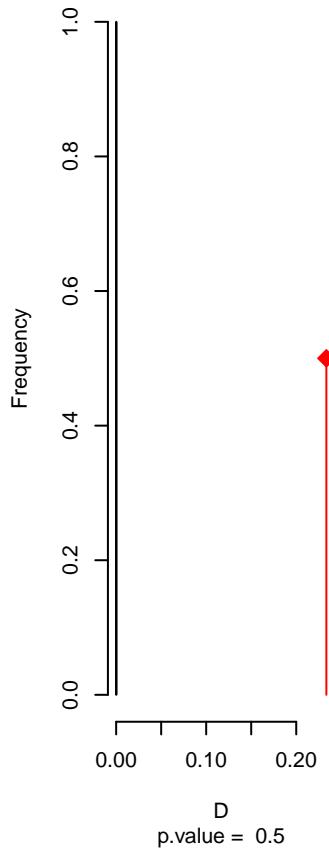
Equivalency



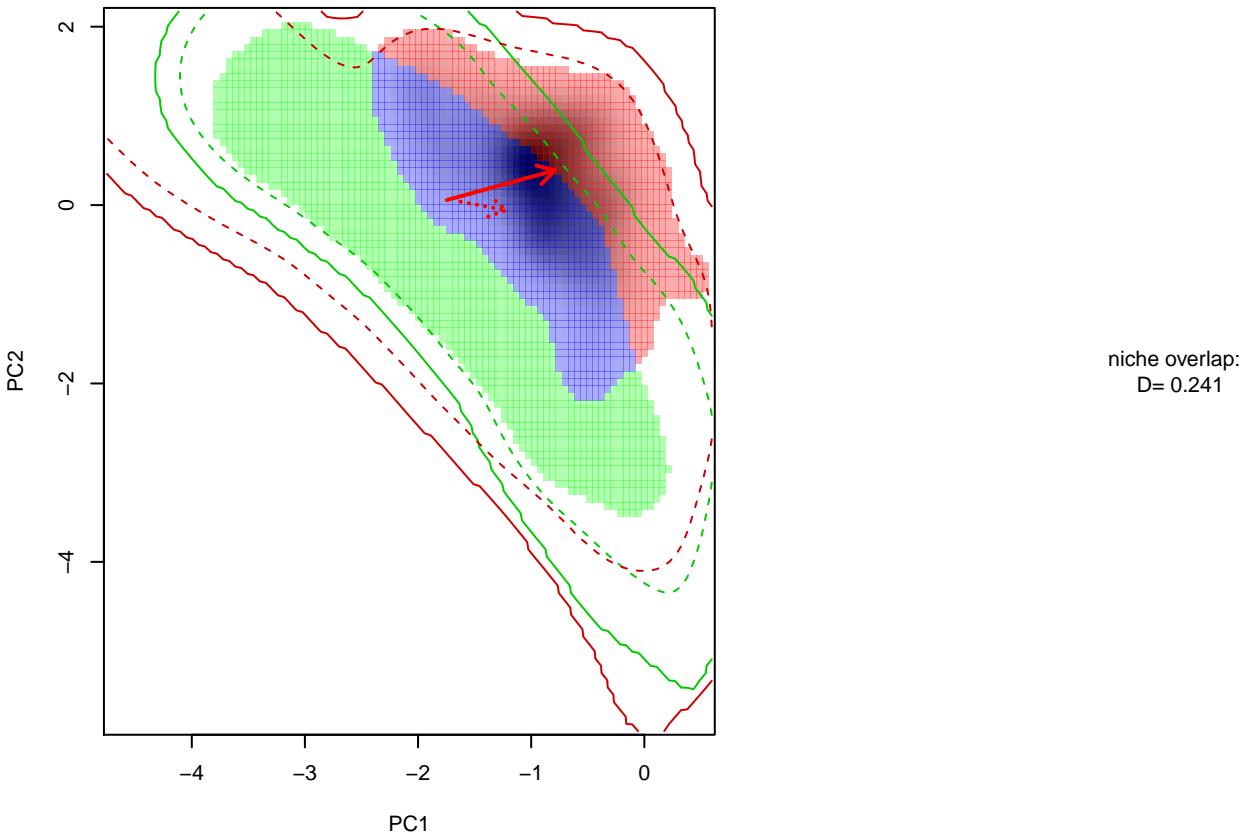
Similarity 2→1



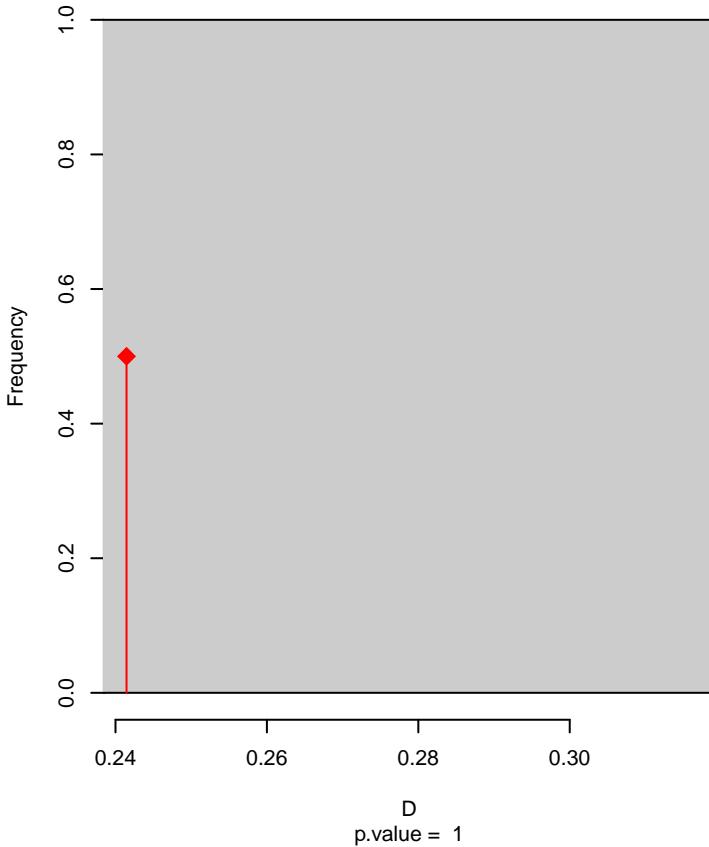
Similarity 1→2



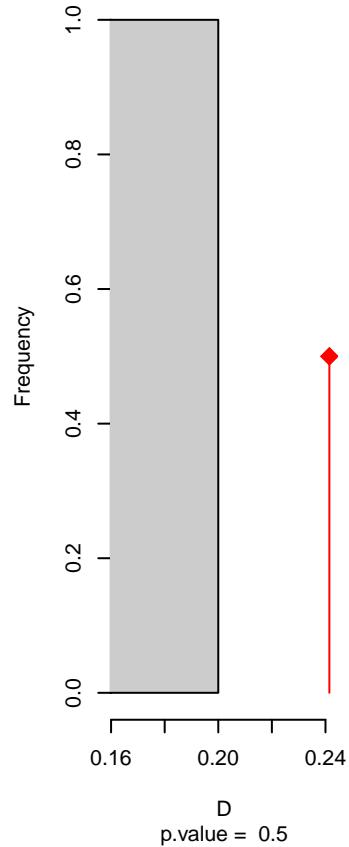
# Hirundo\_albigularis seasonal overlap-hypo wi



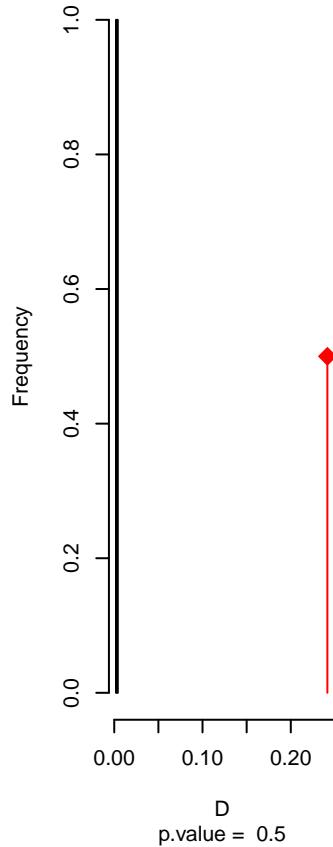
**Equivalency**



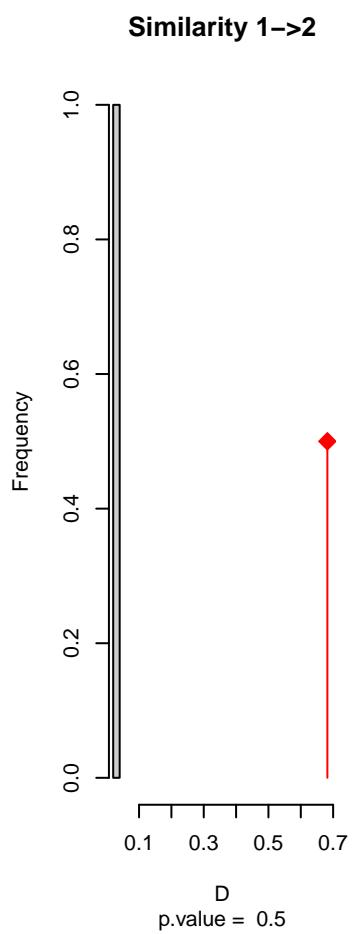
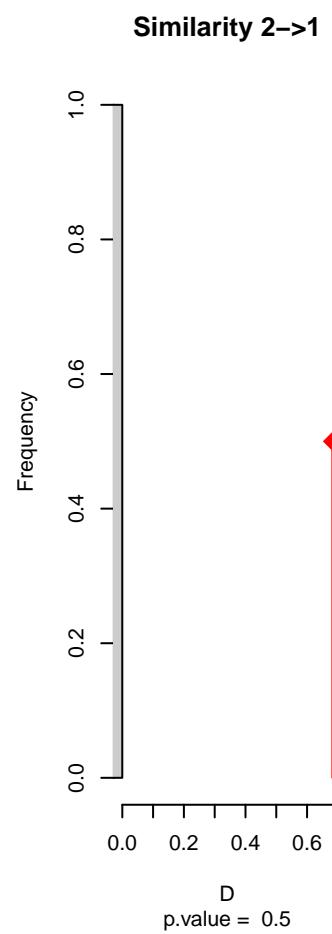
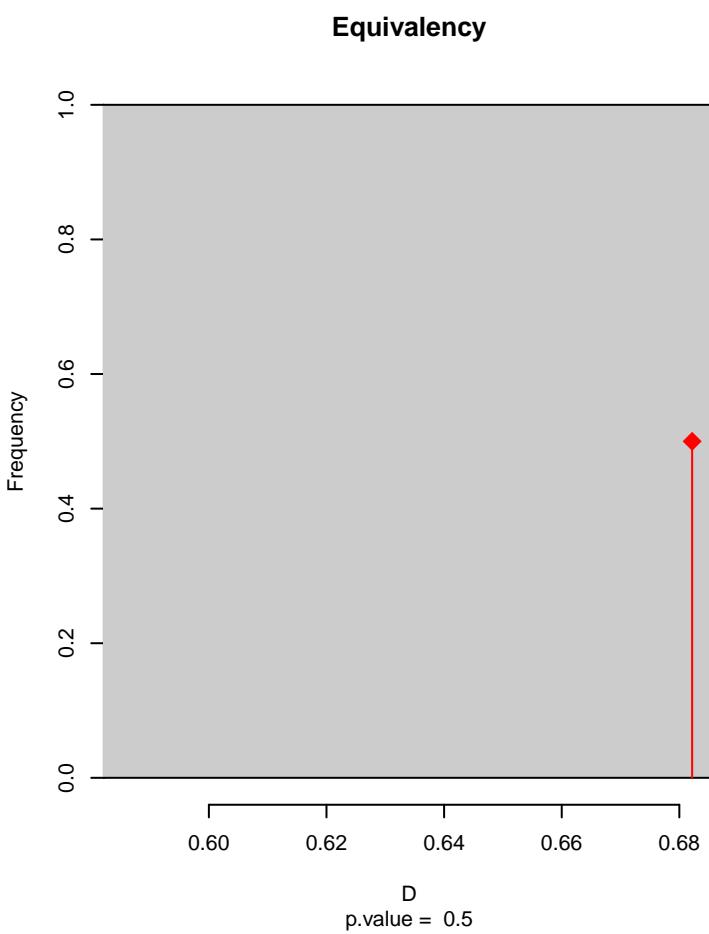
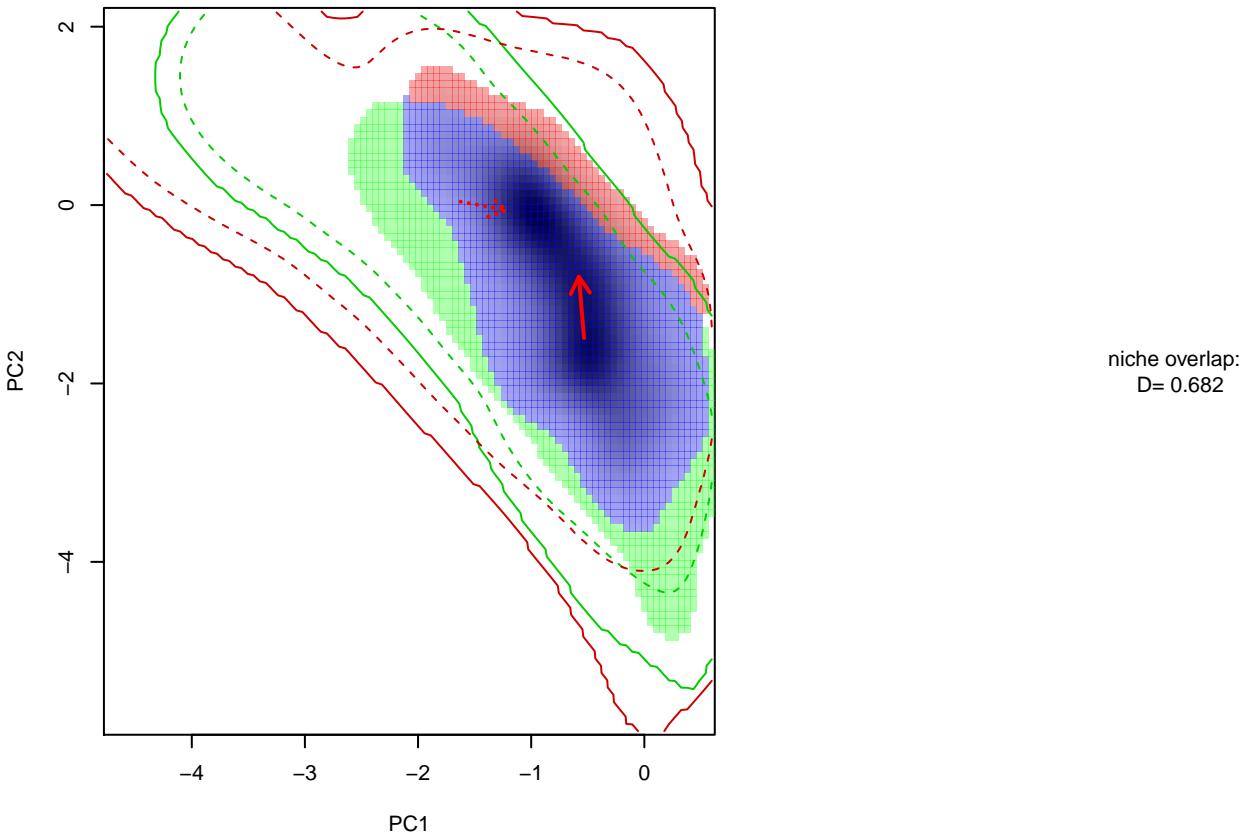
**Similarity 2→1**



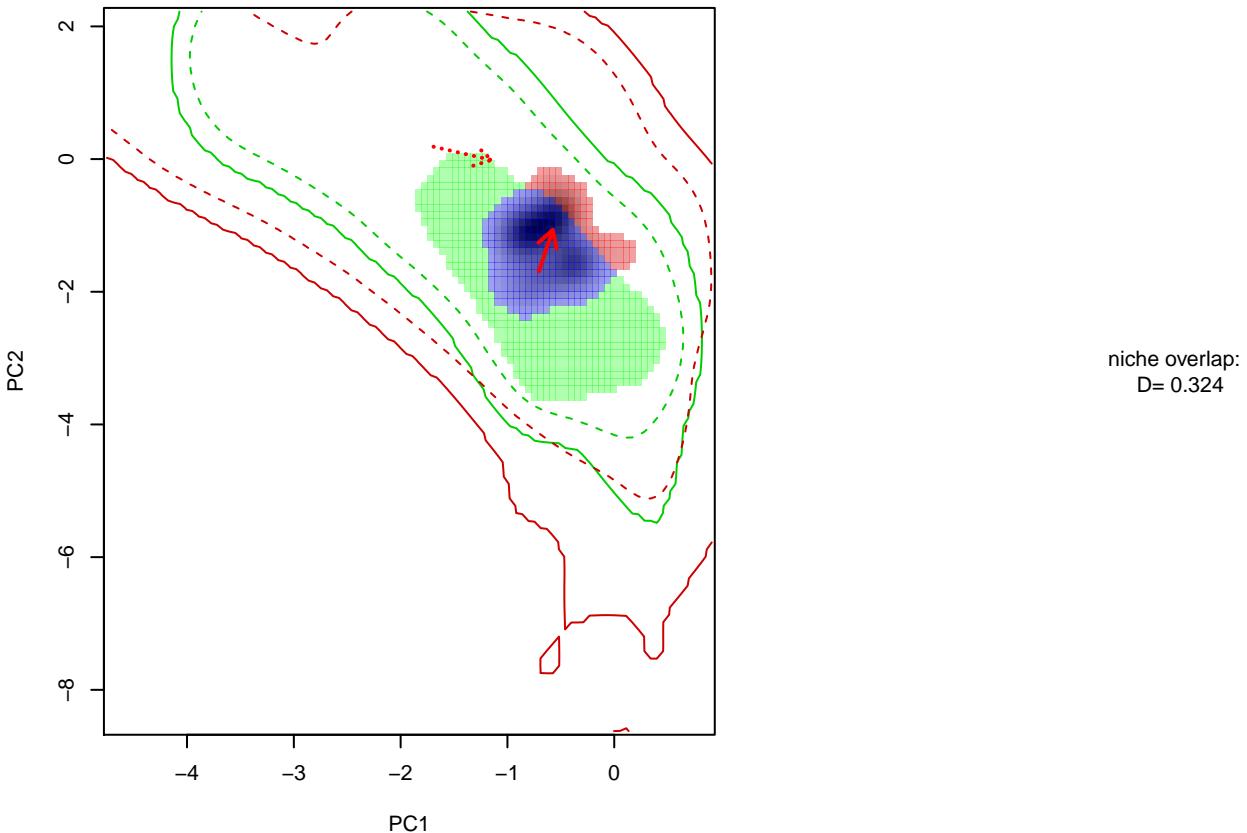
**Similarity 1→2**



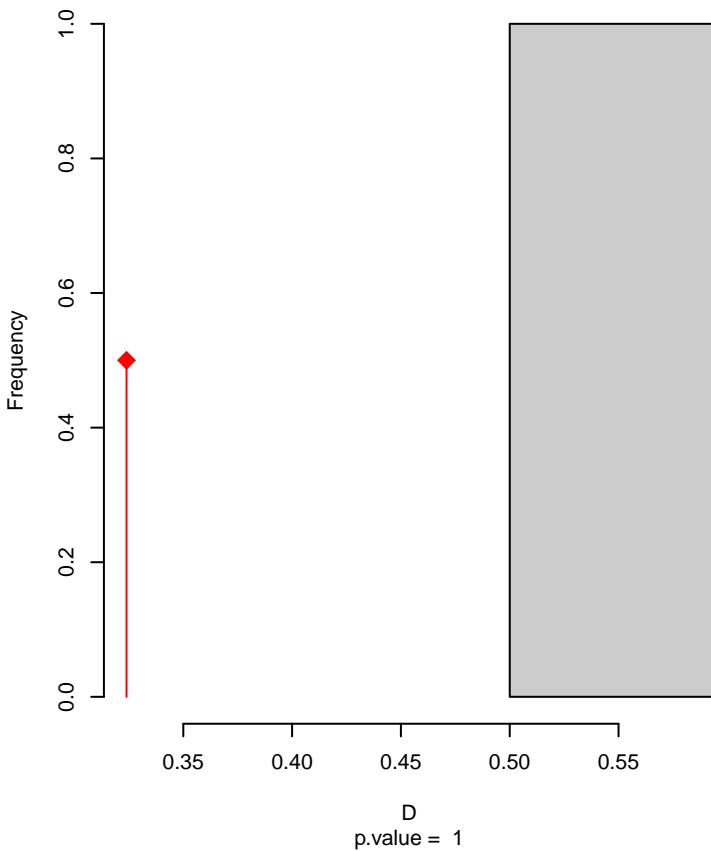
### Hirundo\_angolensis seasonal overlap



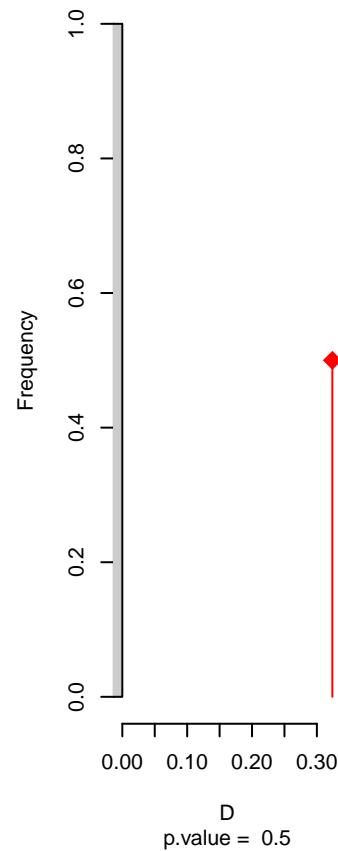
### Hirundo\_atrocaerulea seasonal overlap



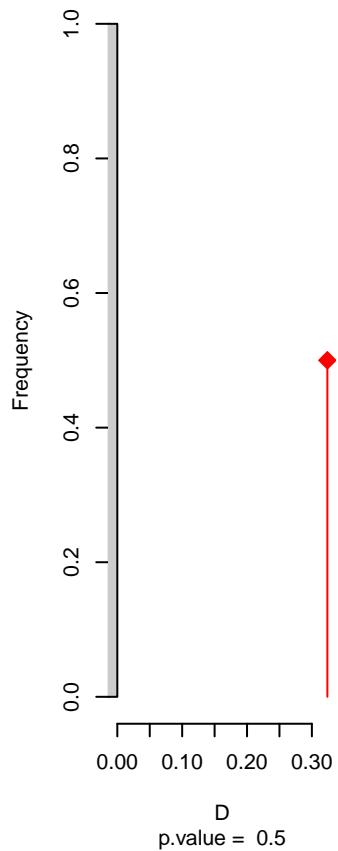
**Equivalency**



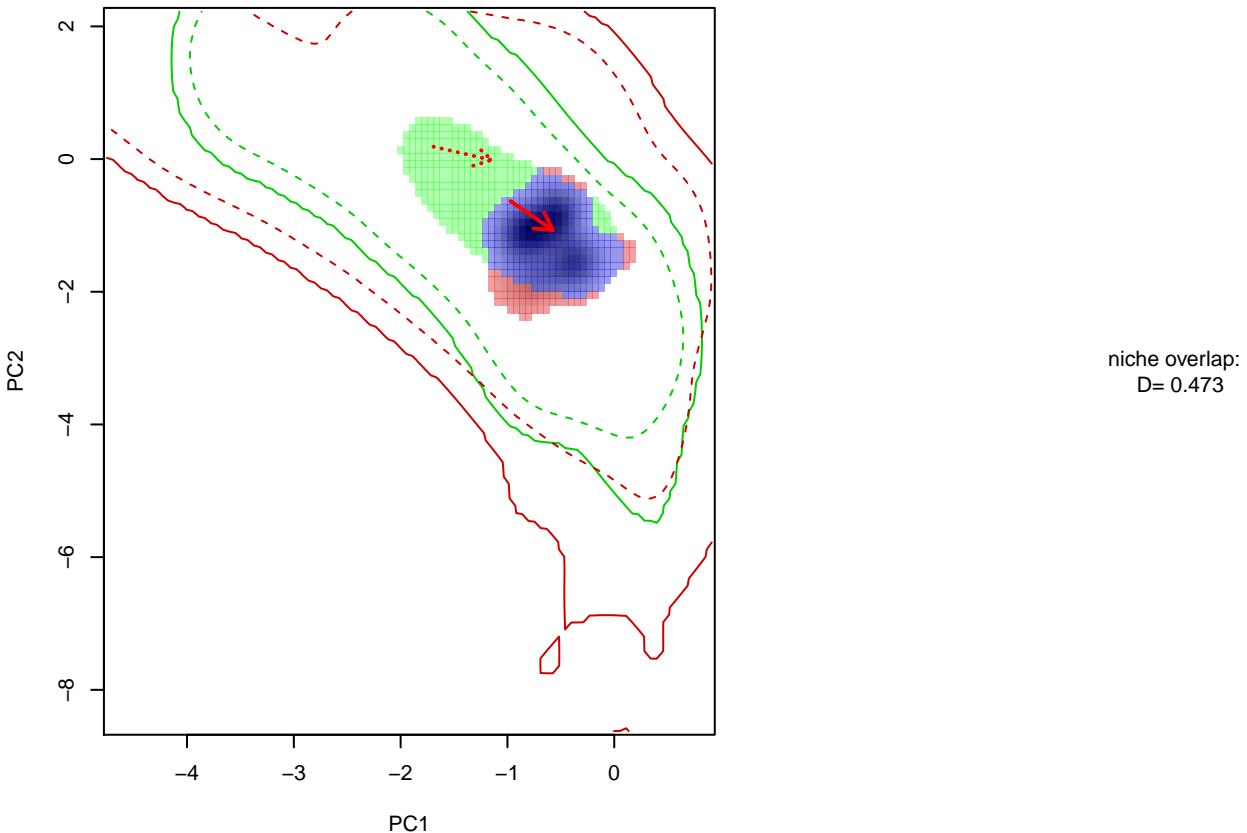
**Similarity 2→1**



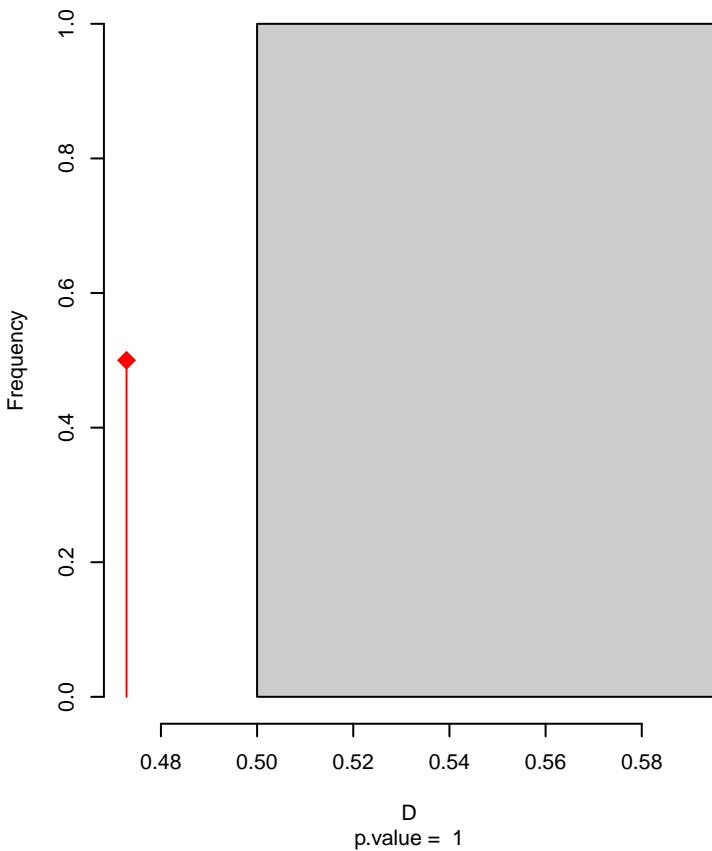
**Similarity 1→2**



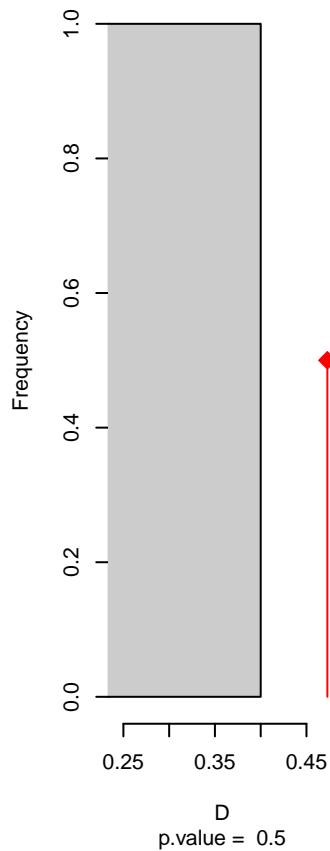
# Hirundo\_atrocaerulea seasonal overlap-hypo.br



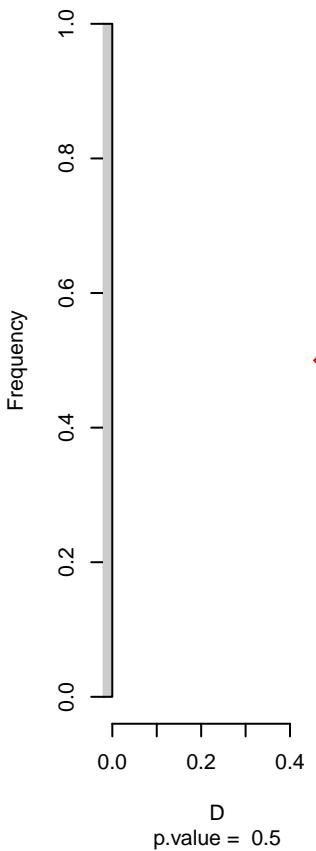
**Equivalency**



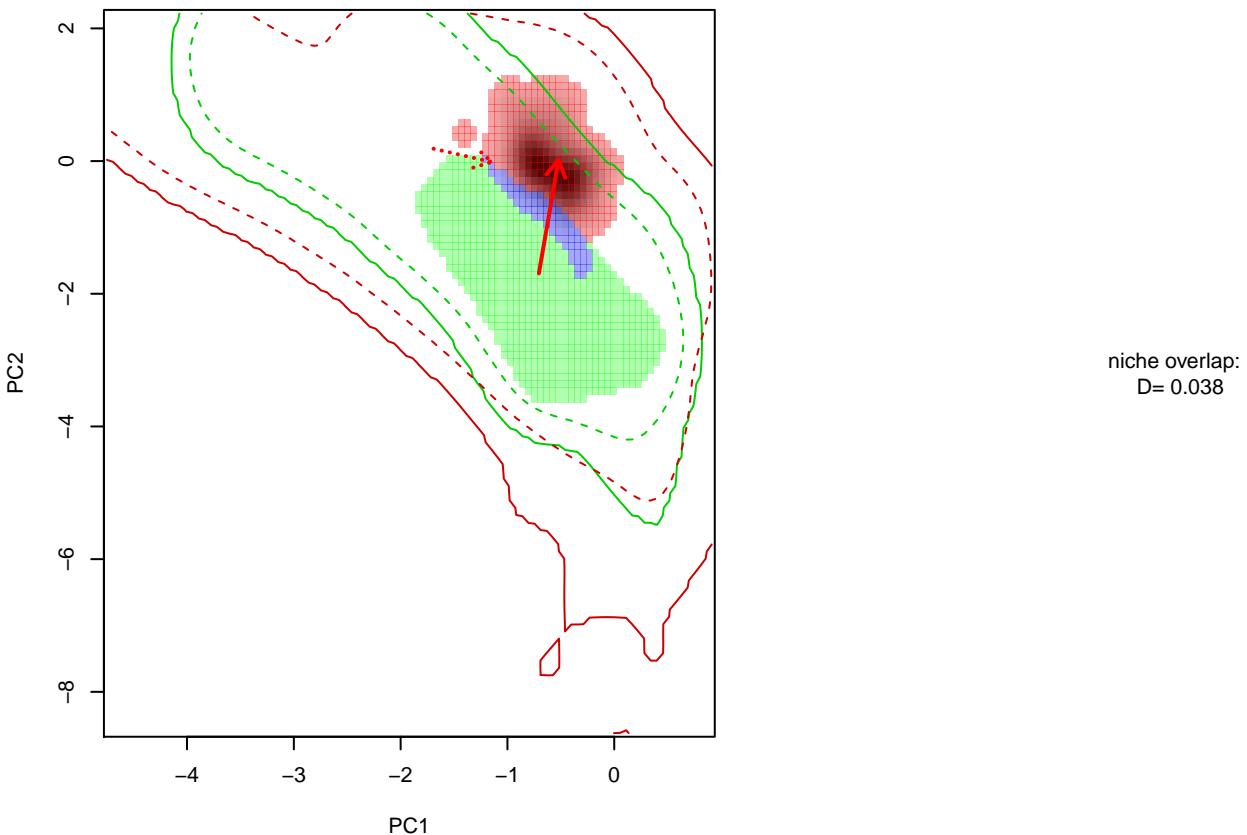
**Similarity 2→1**



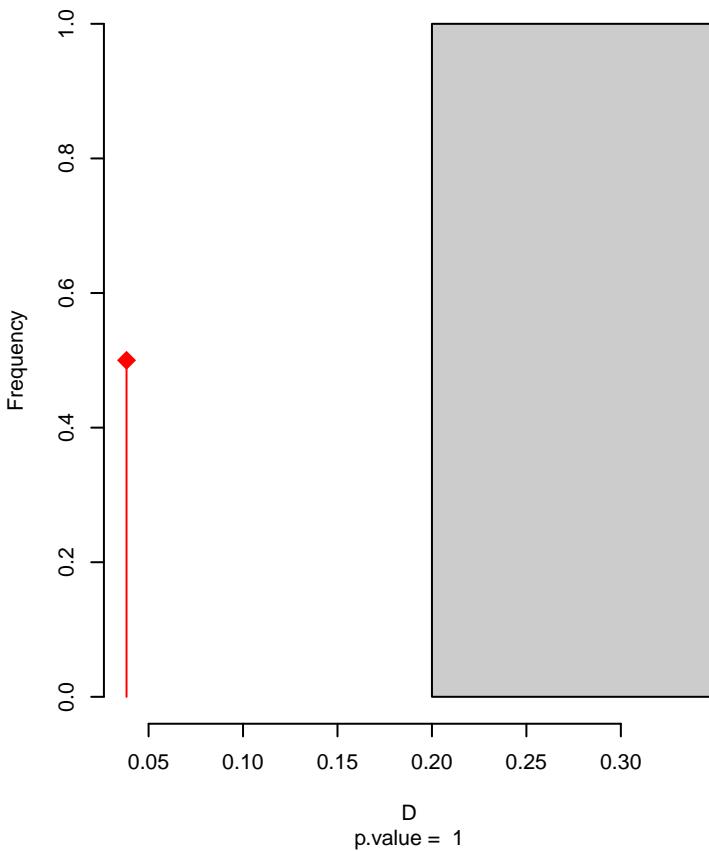
**Similarity 1→2**



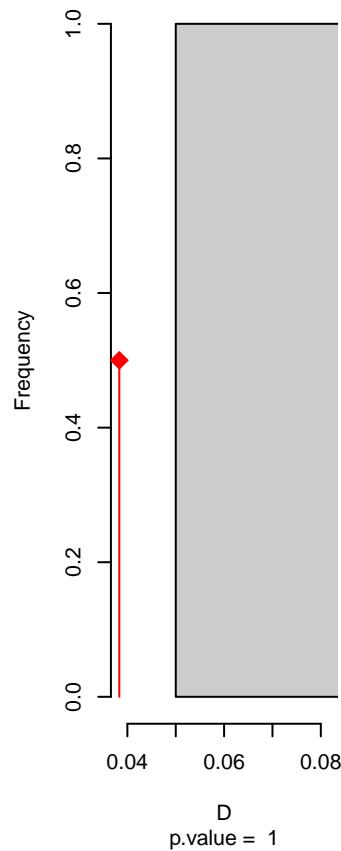
# Hirundo\_atrocaerulea seasonal overlap-hypo wi



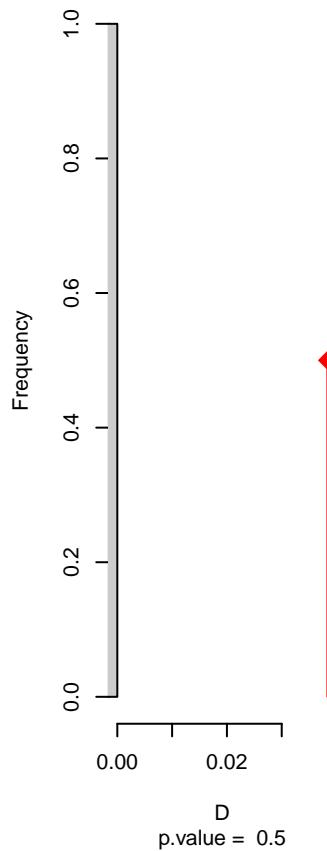
**Equivalency**



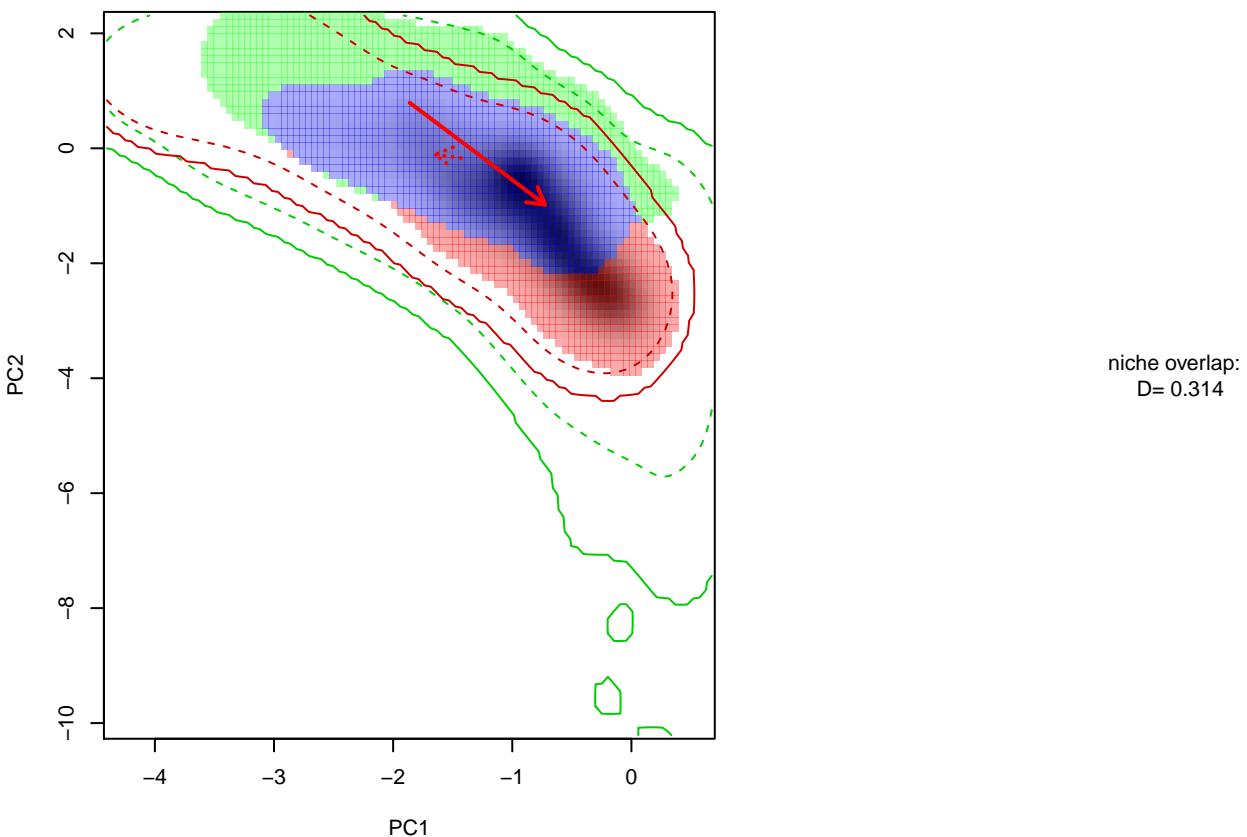
**Similarity 2→1**



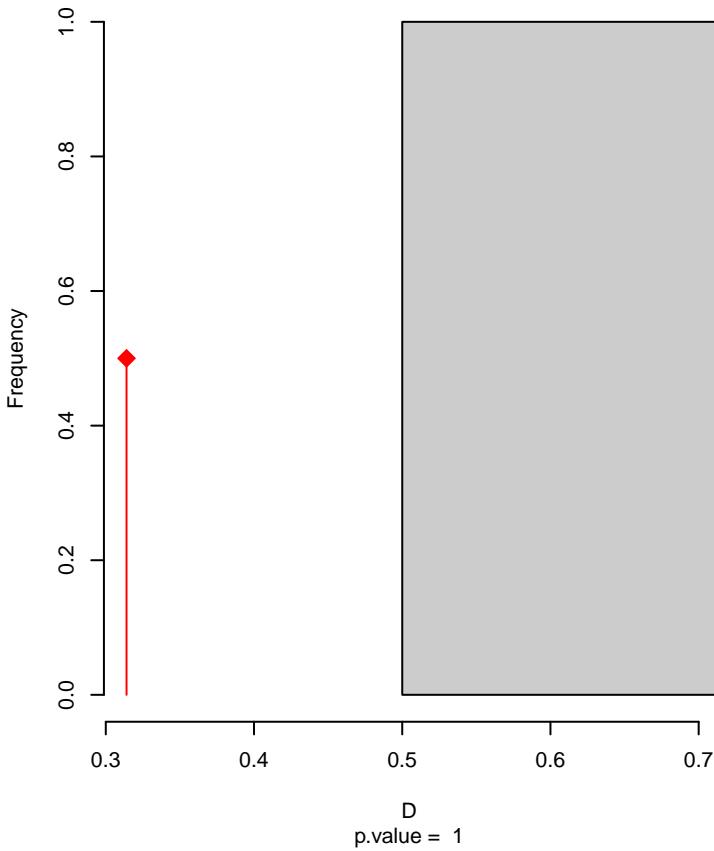
**Similarity 1→2**



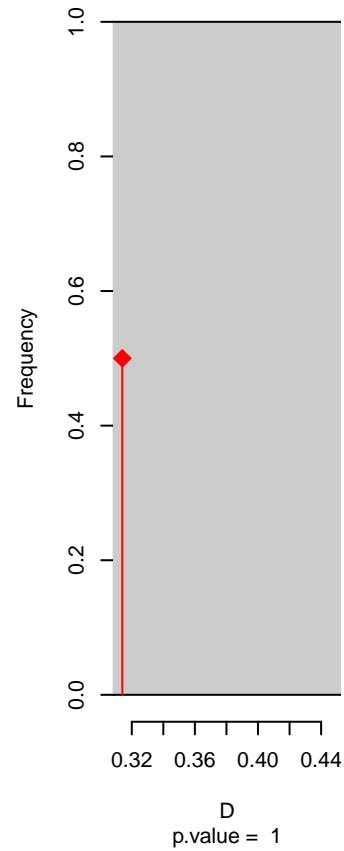
### Hirundo\_dimidiata seasonal overlap



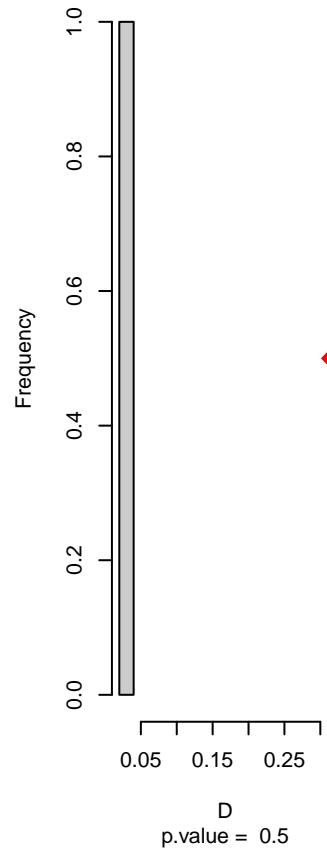
**Equivalency**



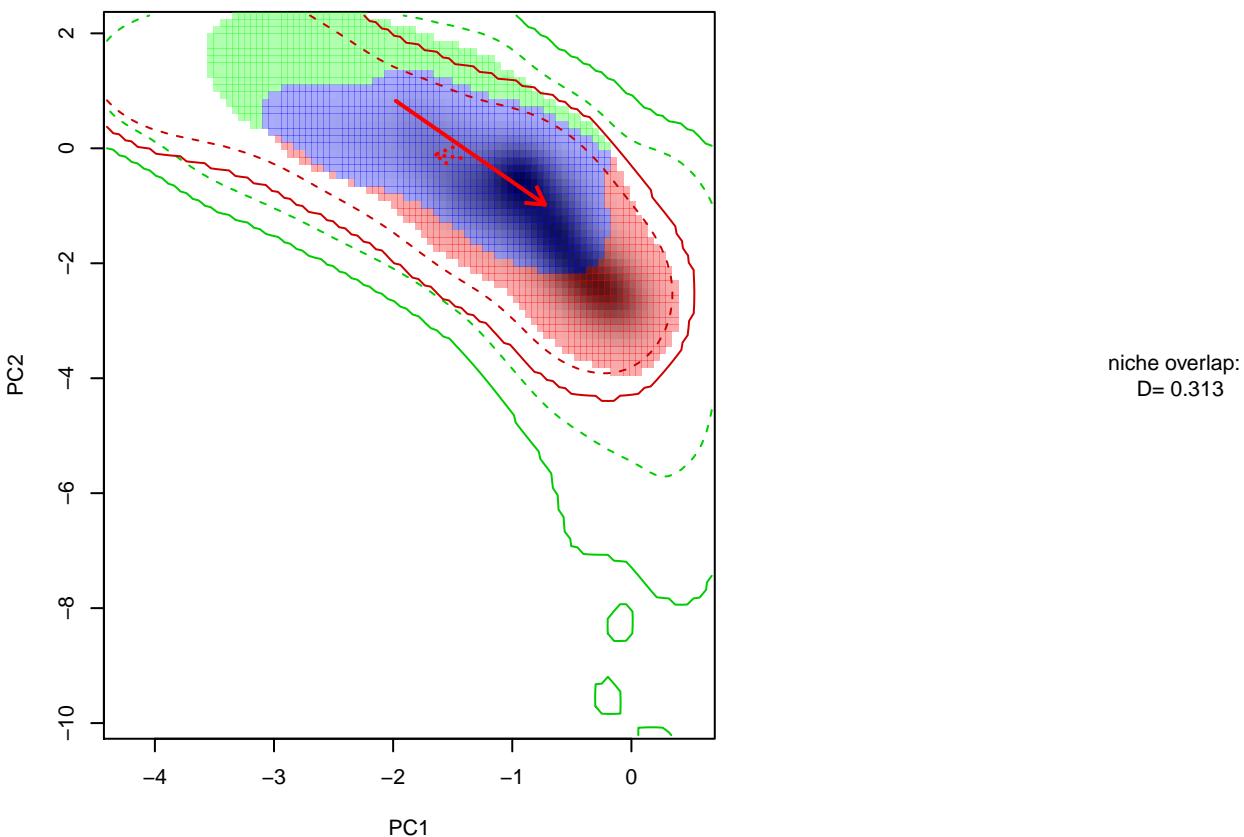
**Similarity 2→1**



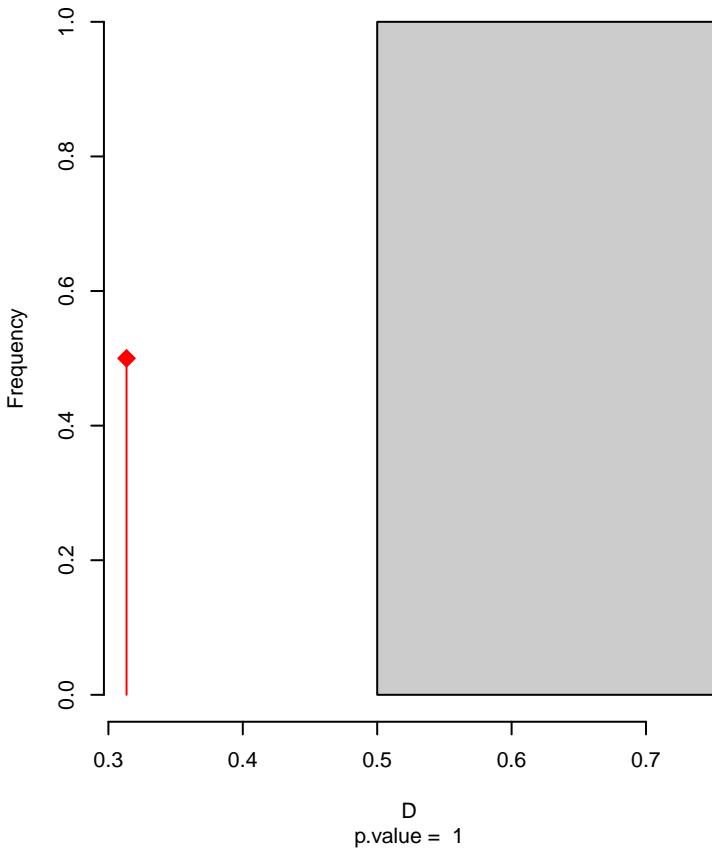
**Similarity 1→2**



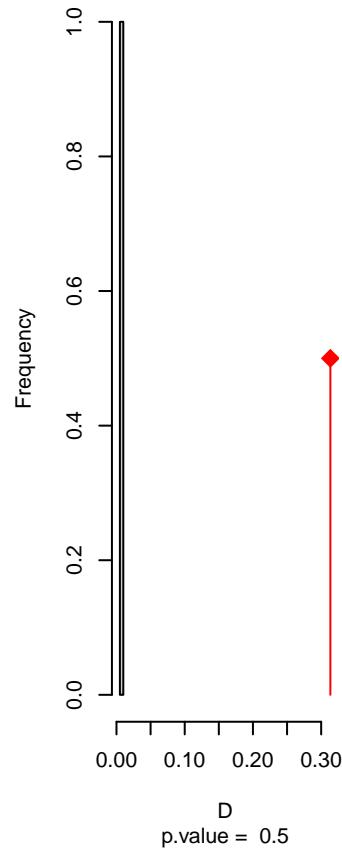
# Hirundo\_dimidiata seasonal overlap–hypo.br



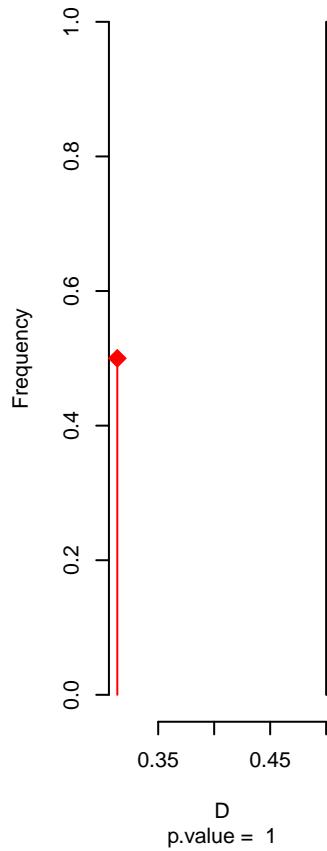
**Equivalency**



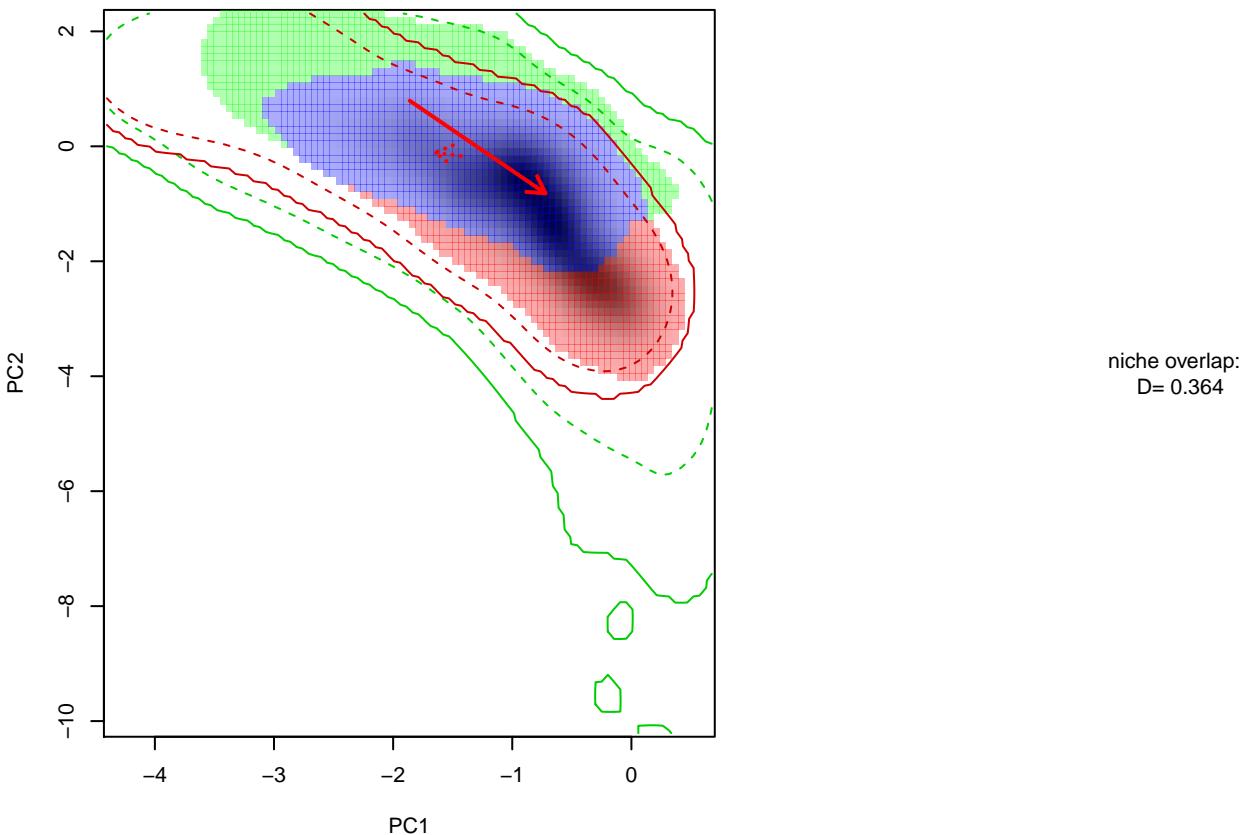
**Similarity 2→1**



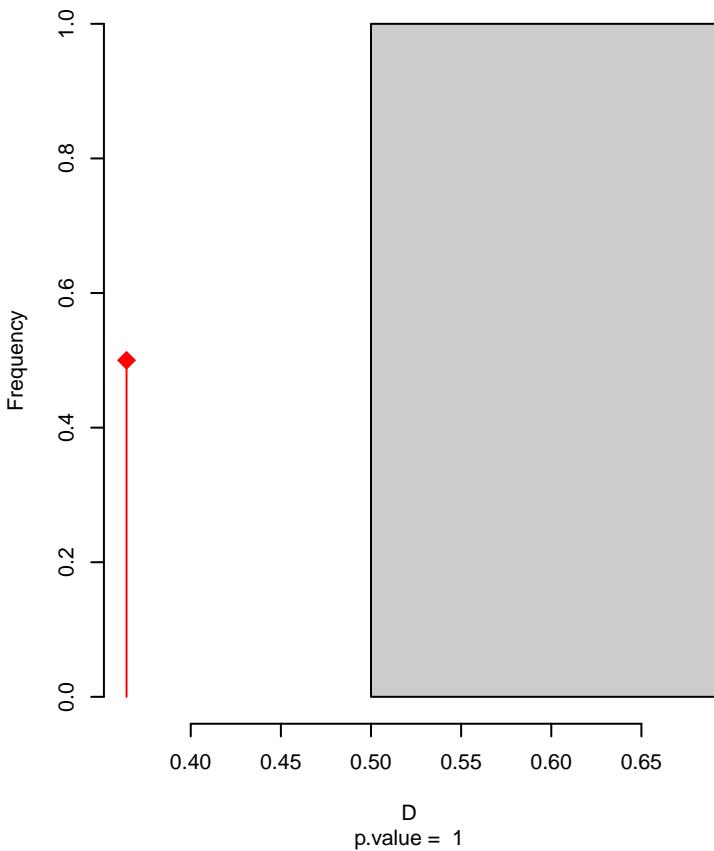
**Similarity 1→2**



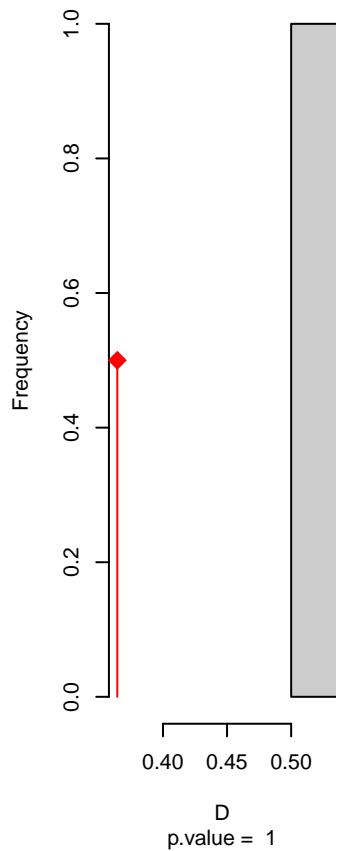
# Hirundo\_dimidiata seasonal overlap–hypo wi



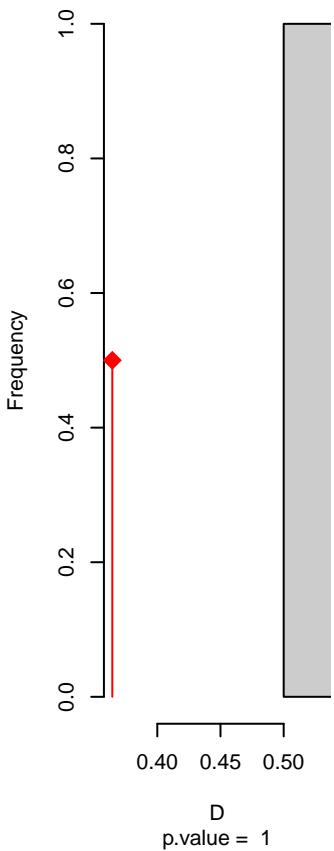
Equivalency



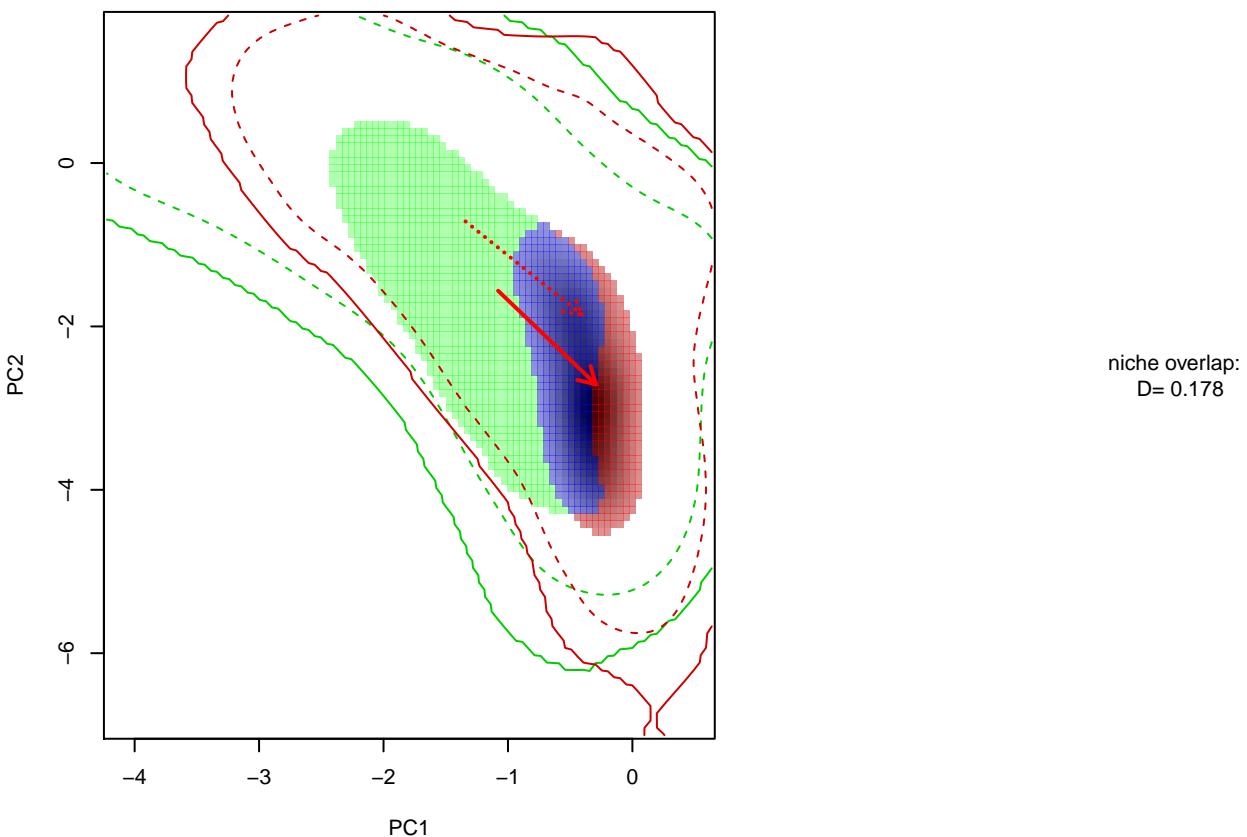
Similarity 2→1



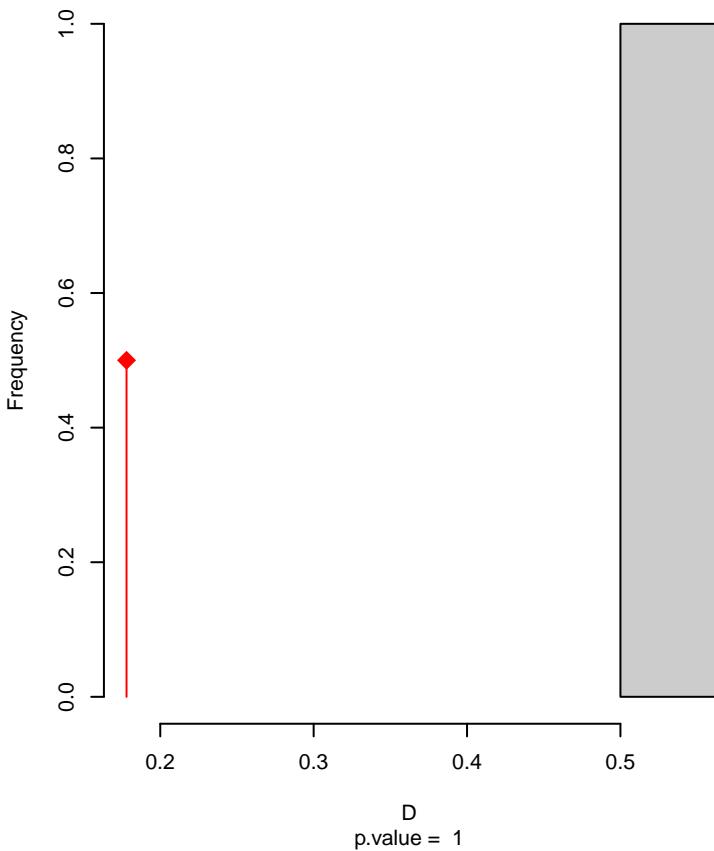
Similarity 1→2



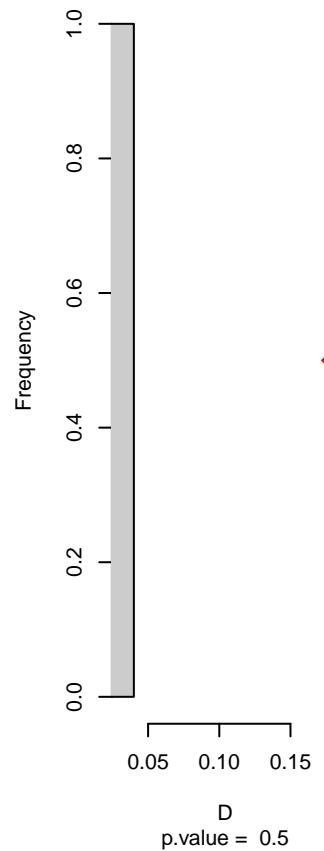
### Hirundo\_domicola seasonal overlap



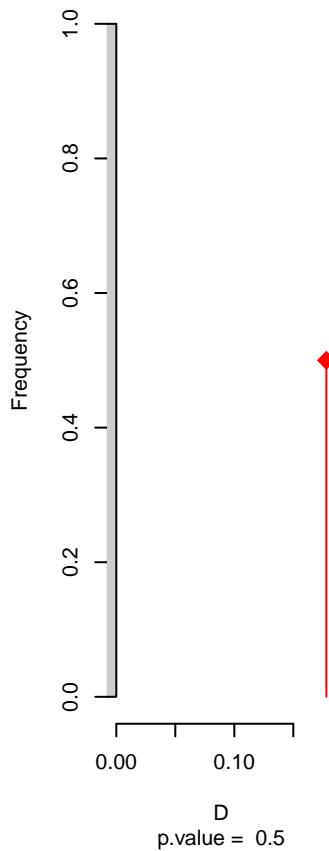
**Equivalency**



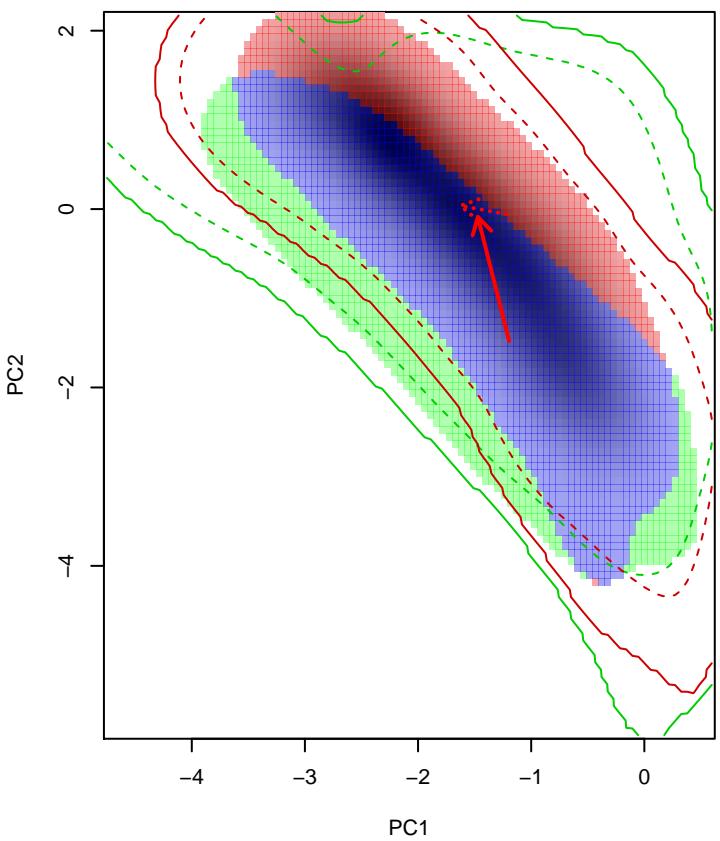
**Similarity 2→1**



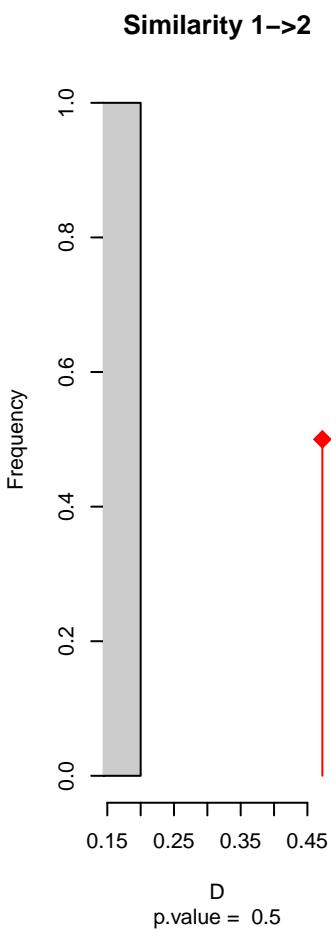
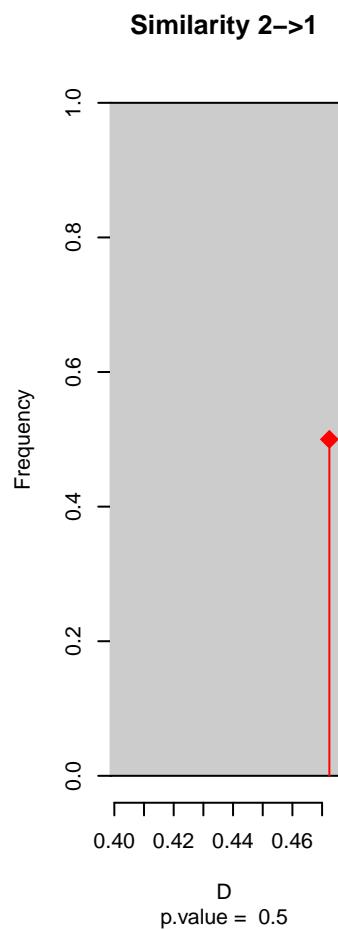
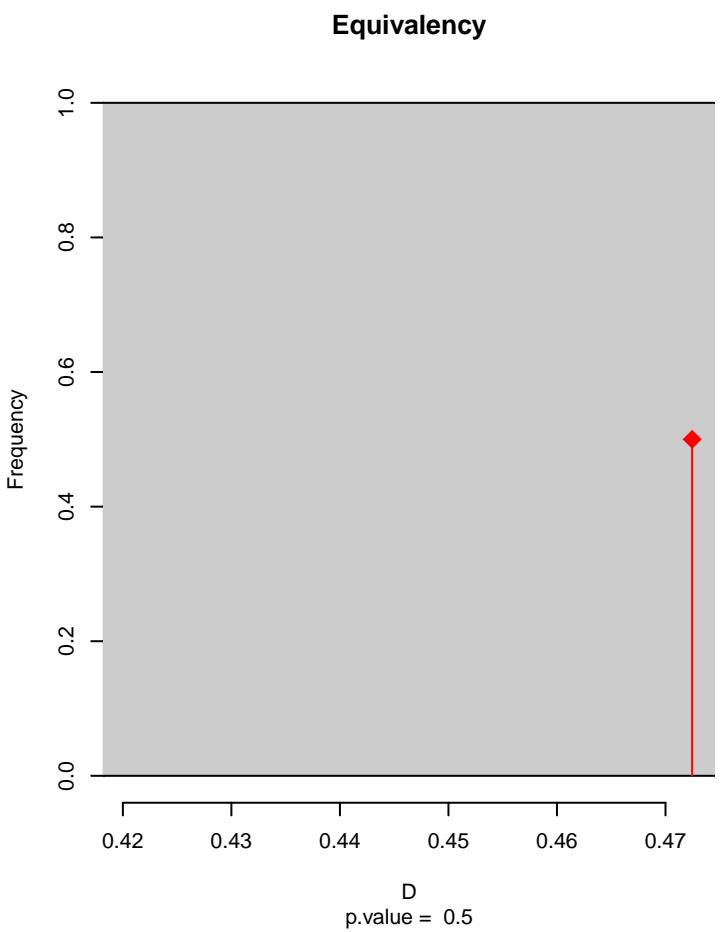
**Similarity 1→2**



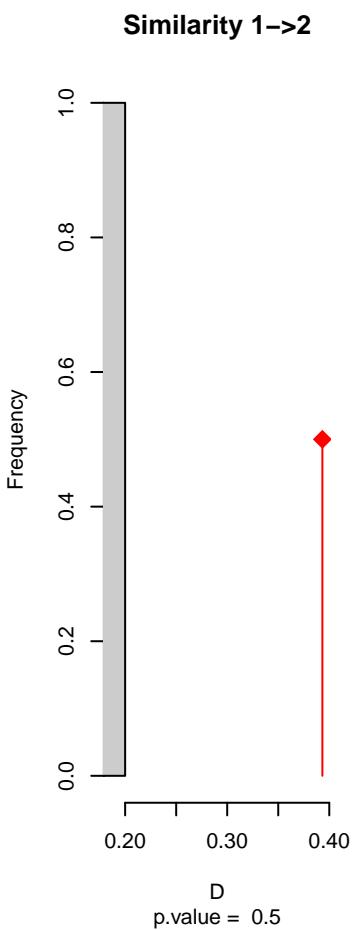
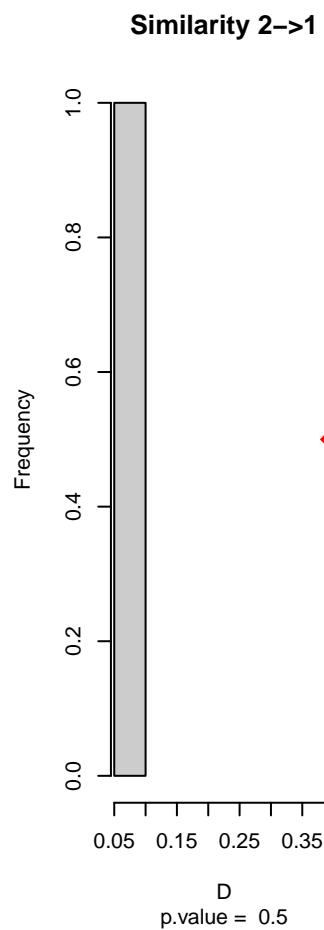
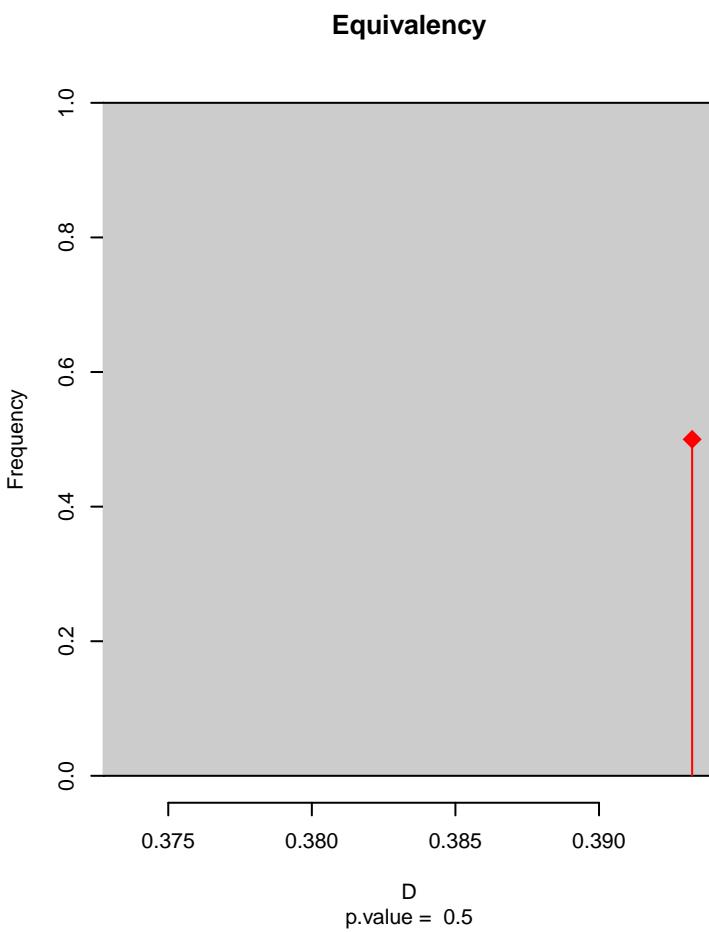
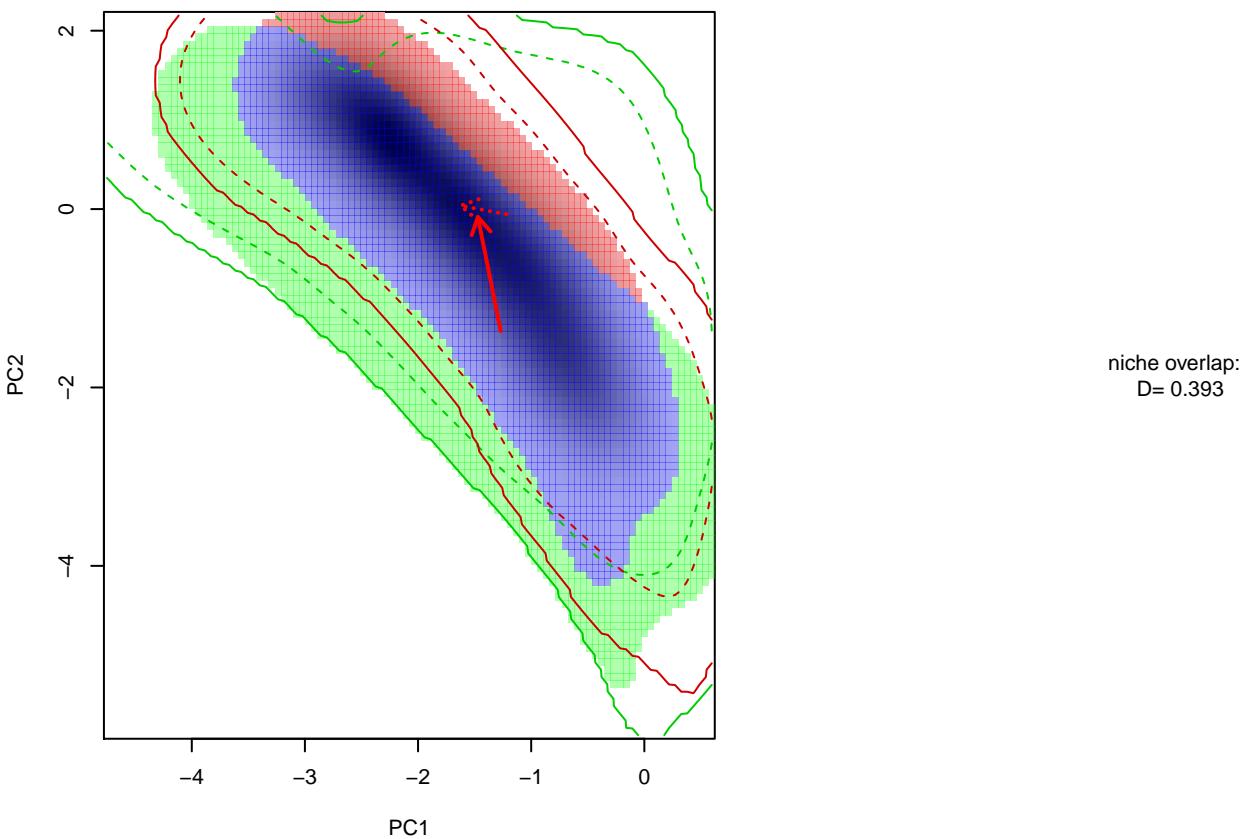
### Hirundo\_leucosoma seasonal overlap



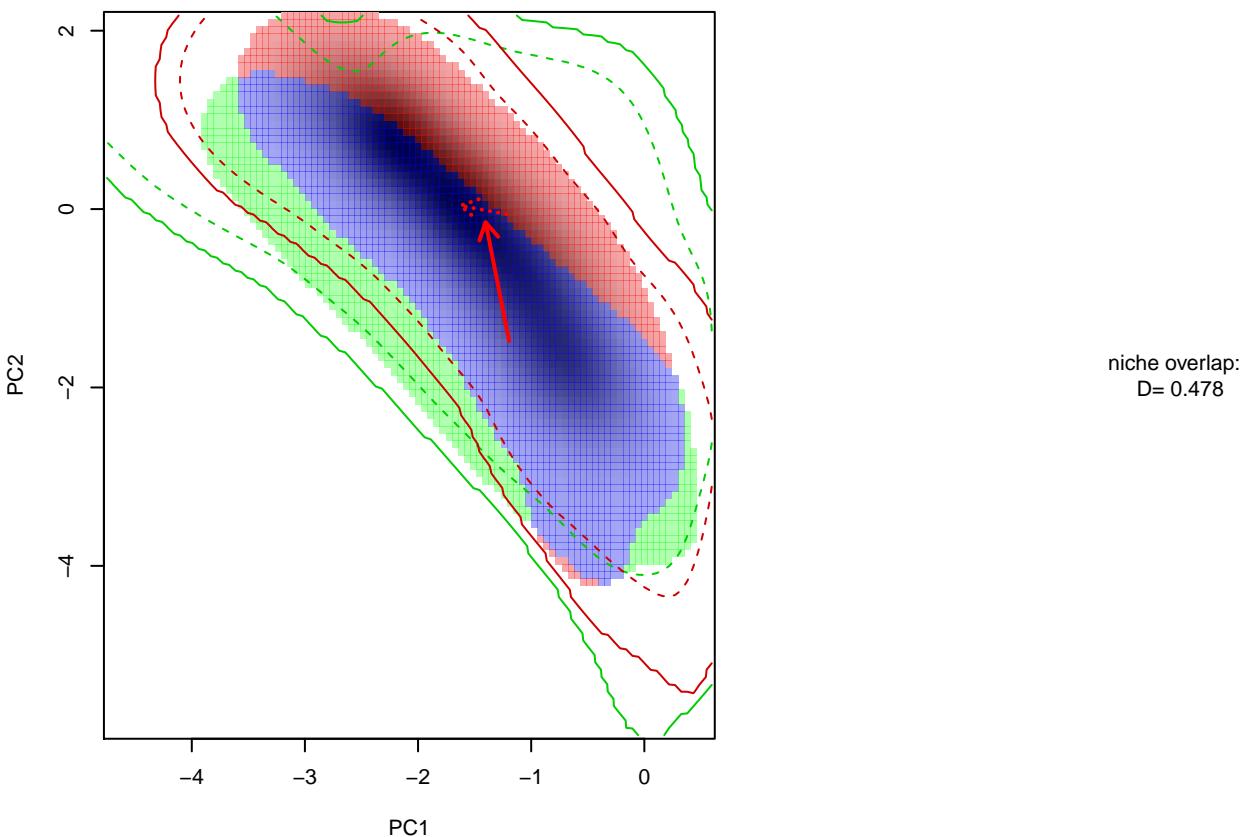
niche overlap:  
 $D = 0.472$



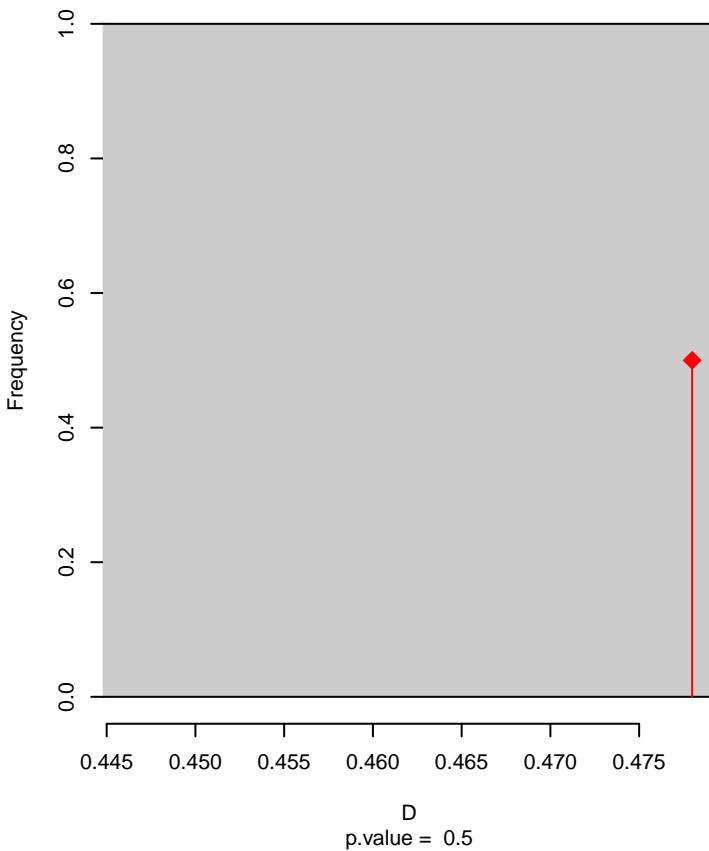
# Hirundo\_leucosoma seasonal overlap-hypo.br



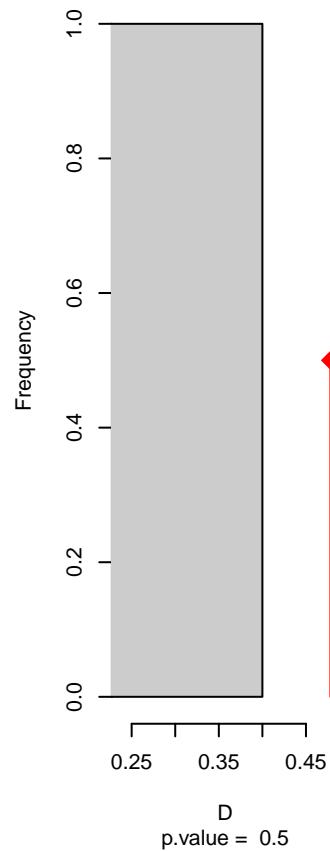
# Hirundo\_leucosoma seasonal overlap-hypo wi



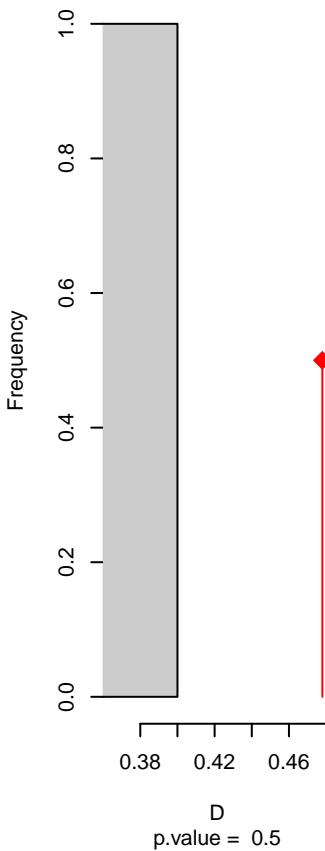
Equivalency



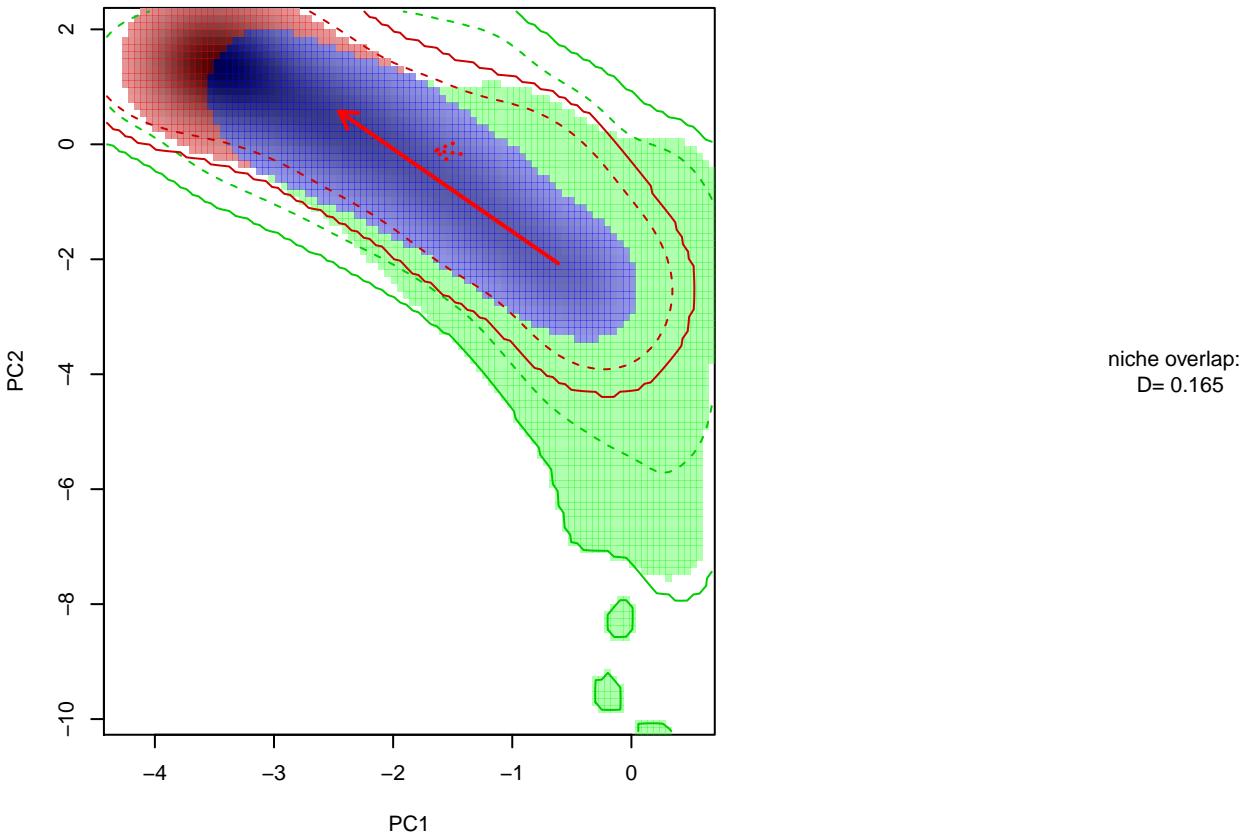
Similarity 2→1



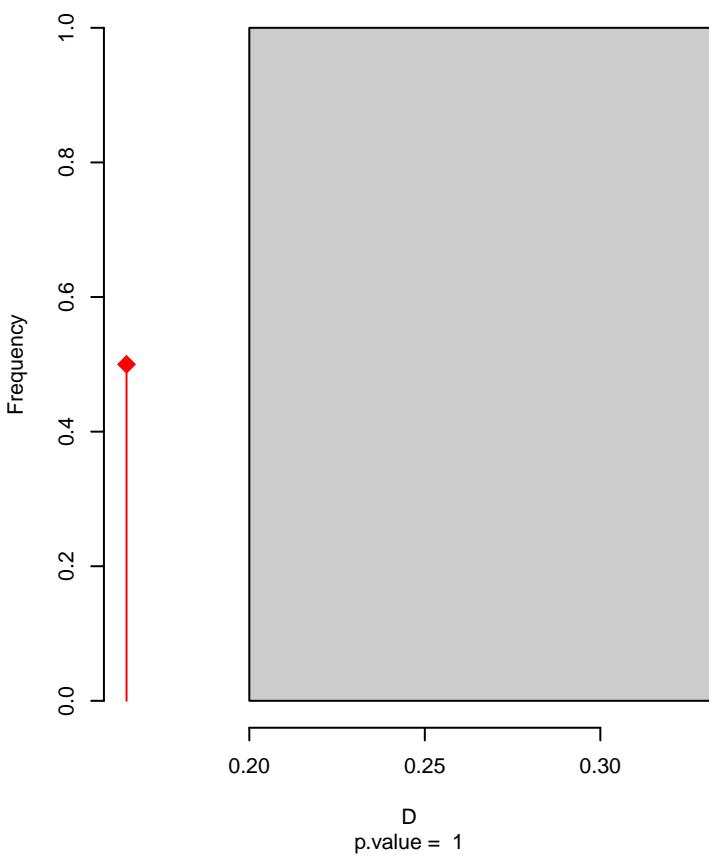
Similarity 1→2



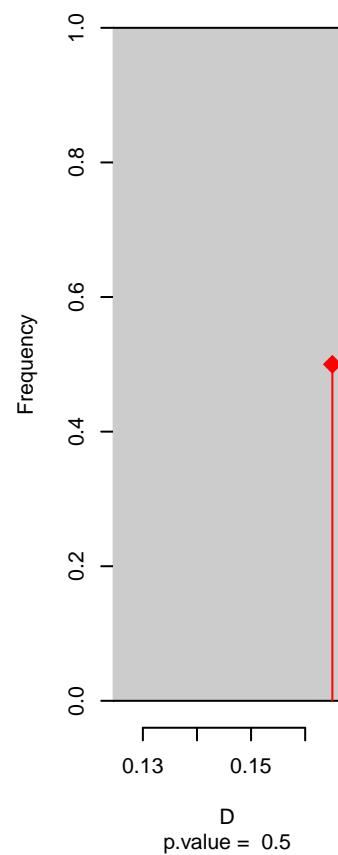
### Hirundo\_lucida seasonal overlap



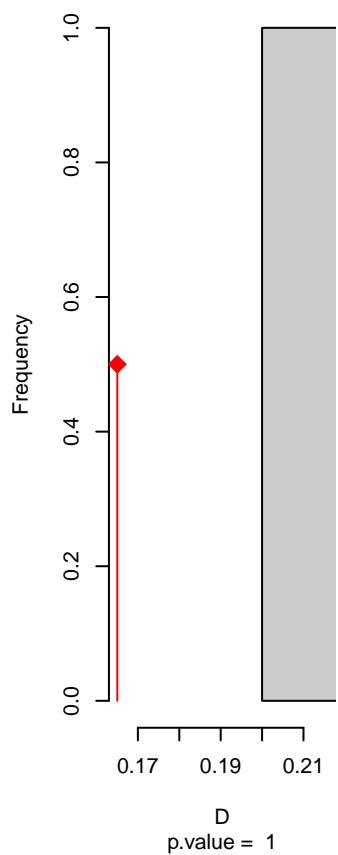
**Equivalency**



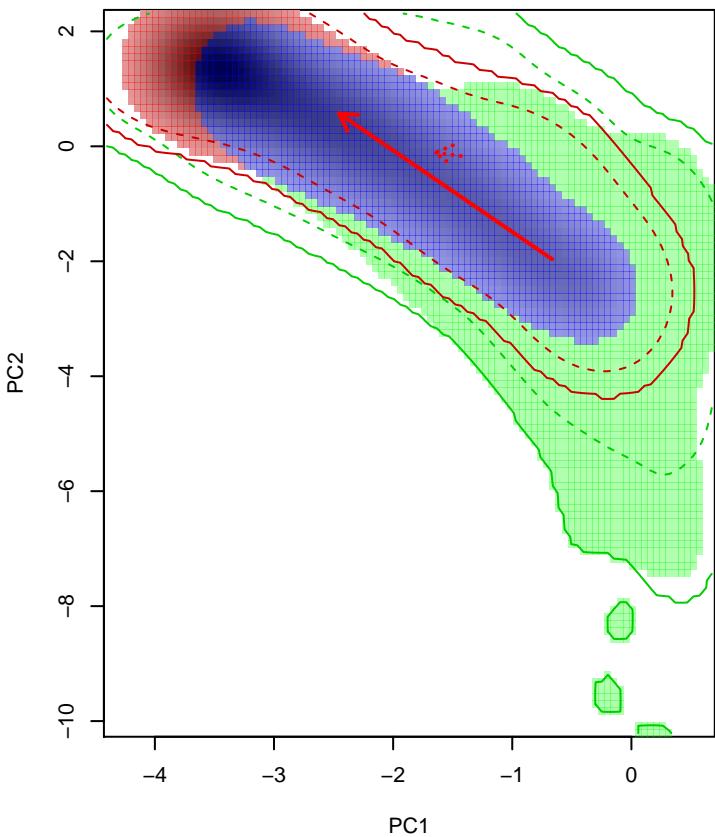
**Similarity 2→1**



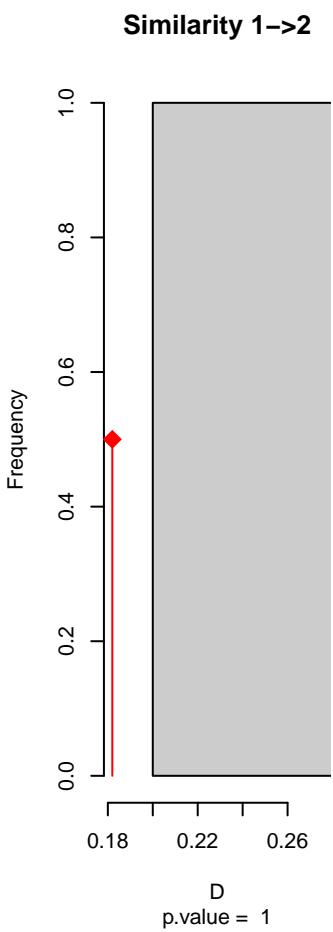
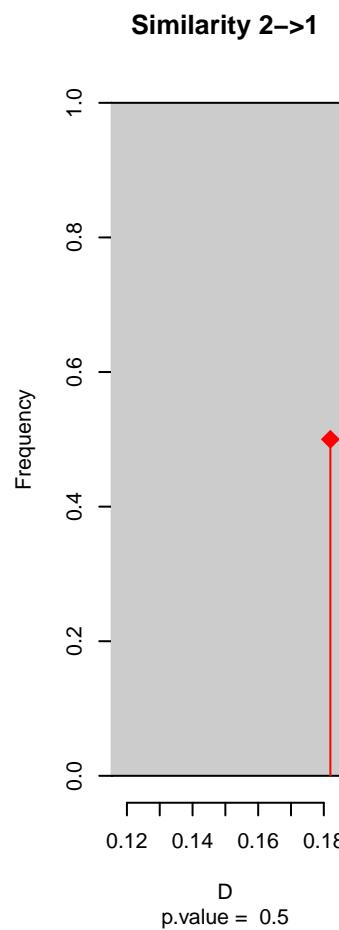
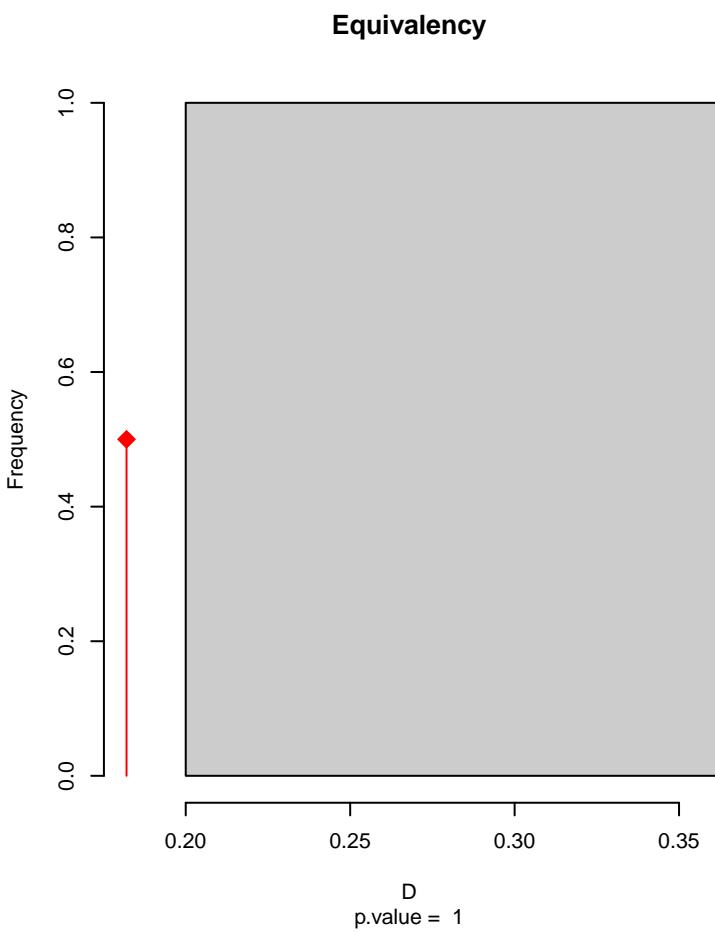
**Similarity 1→2**



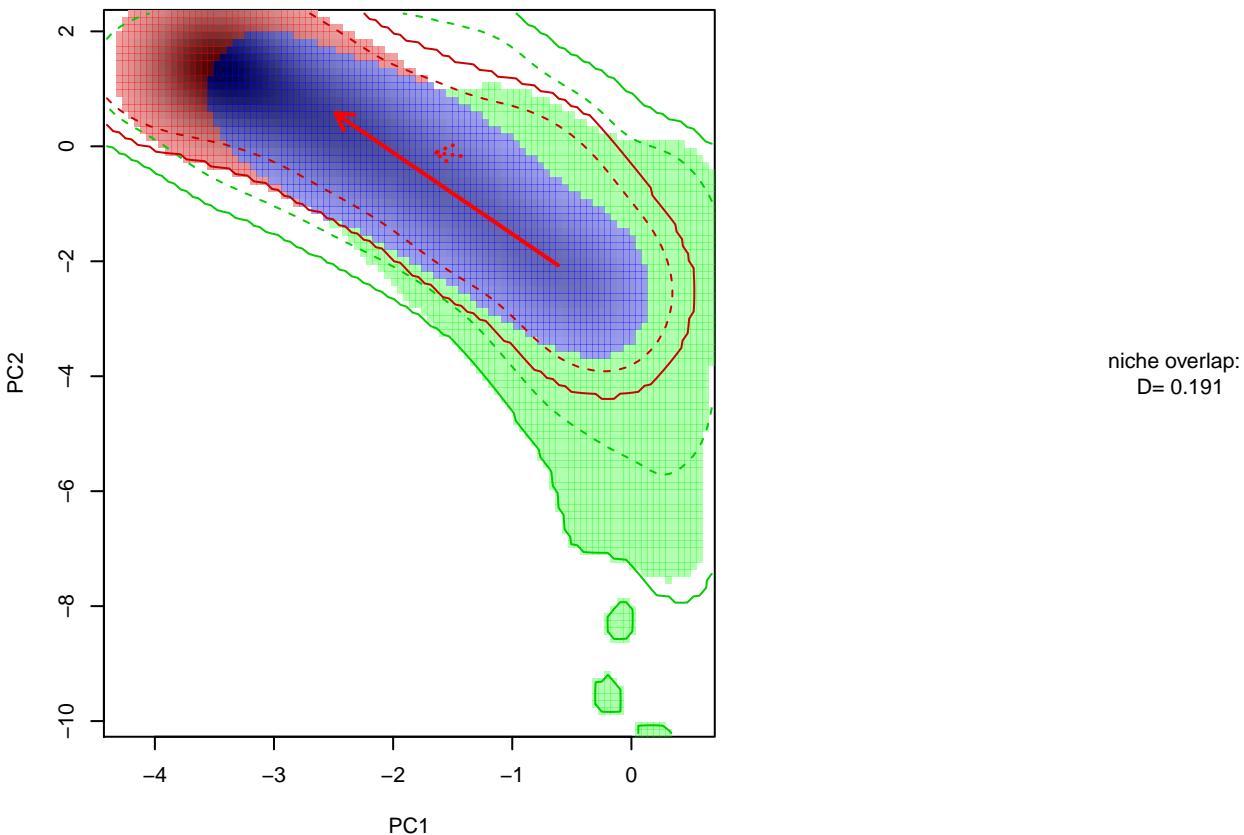
# Hirundo\_lucida seasonal overlap-hypo.br



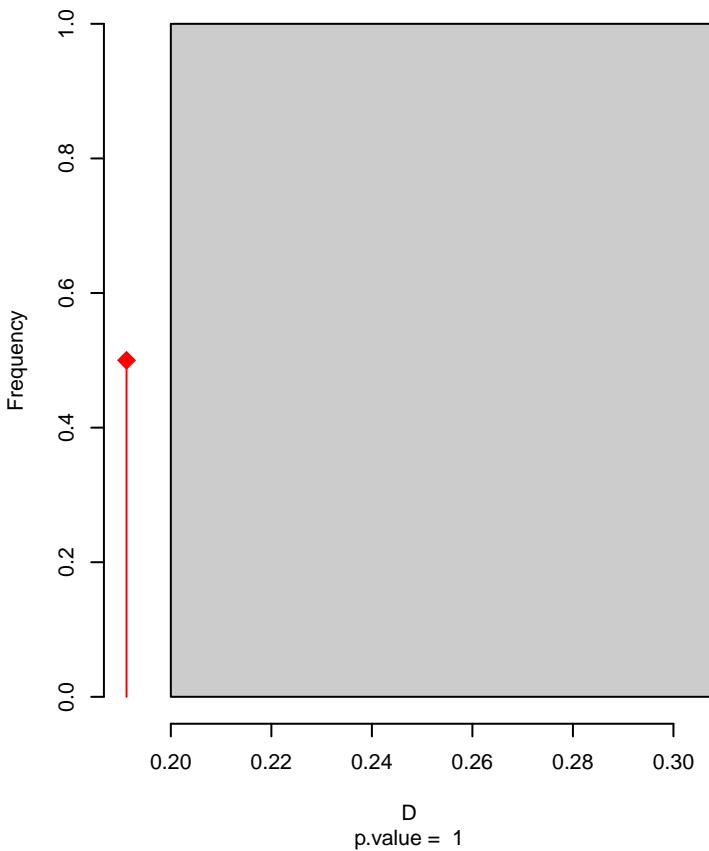
niche overlap:  
 $D = 0.182$



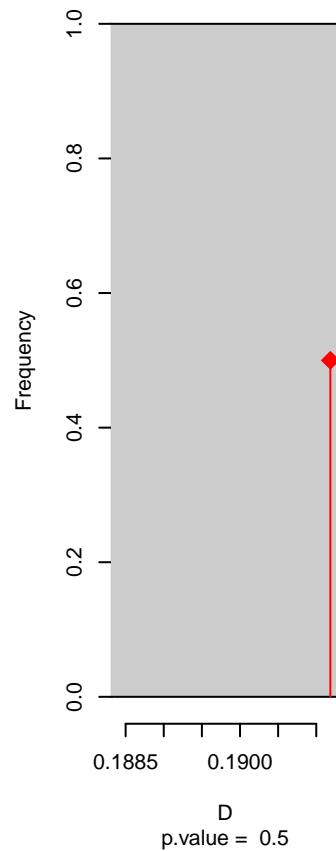
# Hirundo\_lucida seasonal overlap-hypo wi



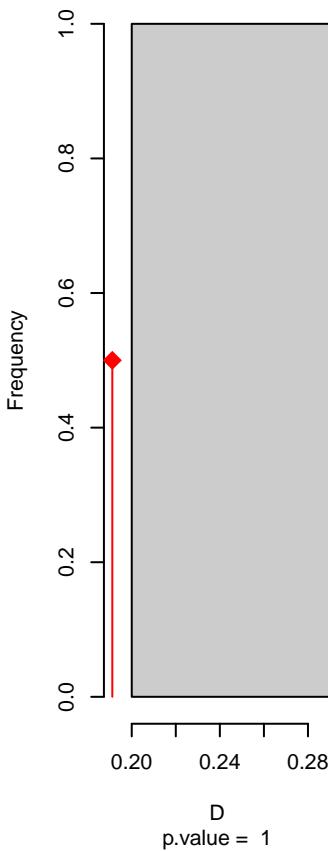
**Equivalency**



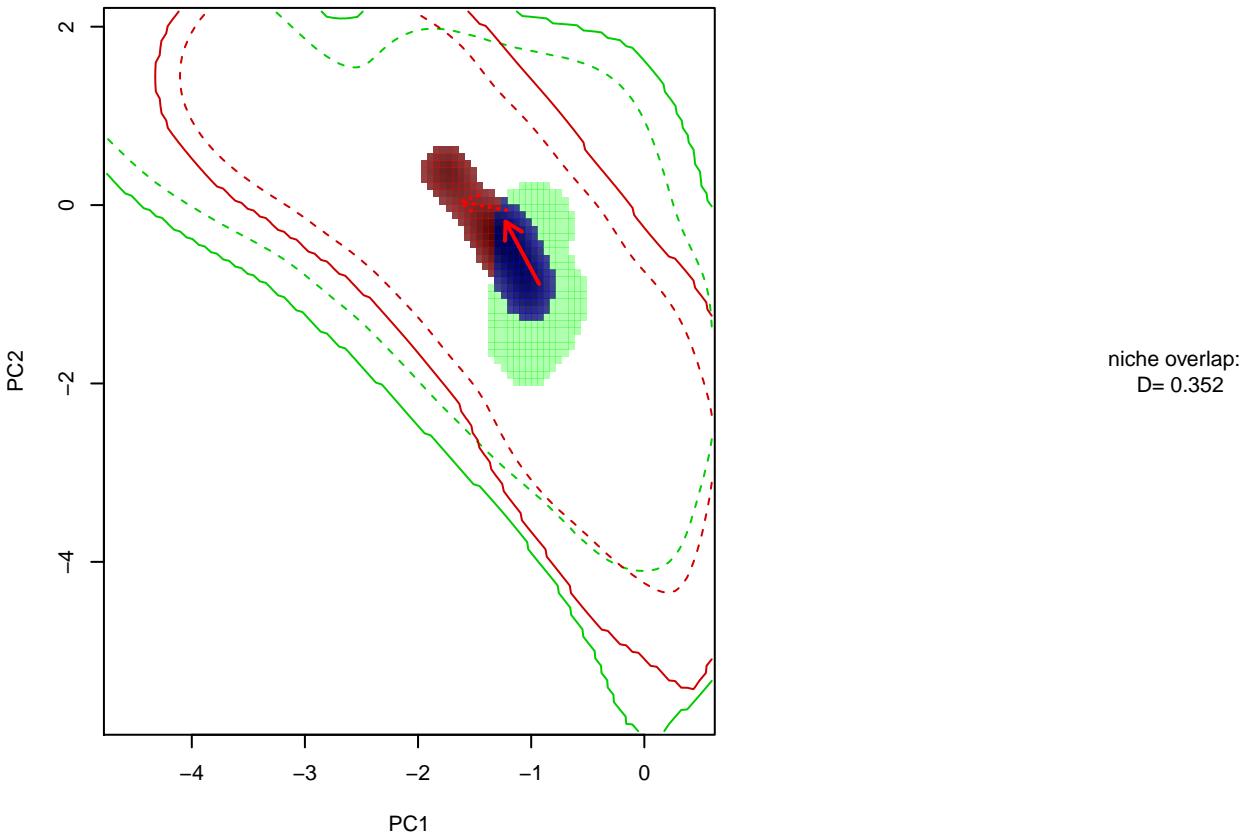
**Similarity 2→1**



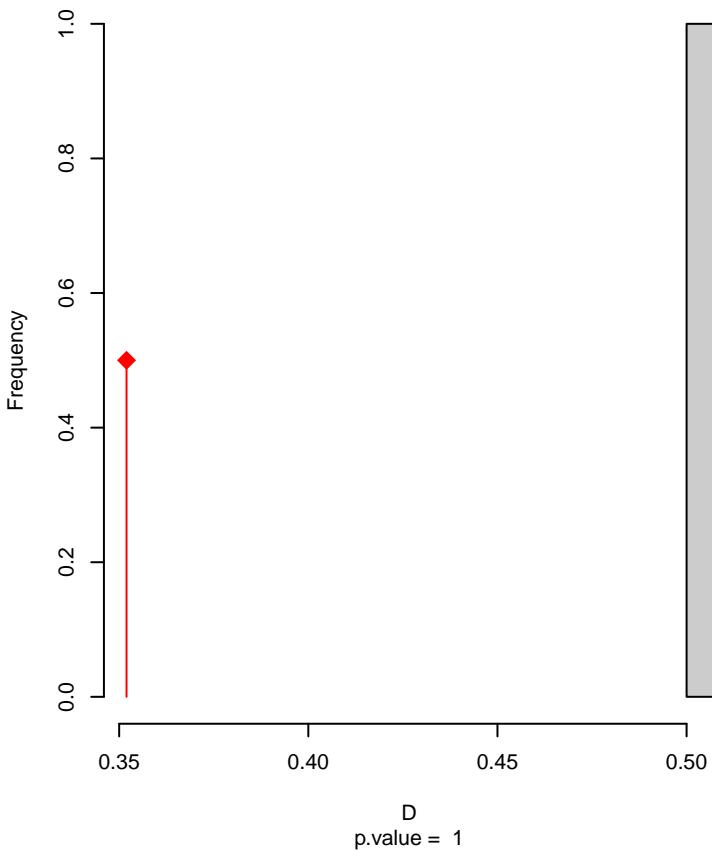
**Similarity 1→2**



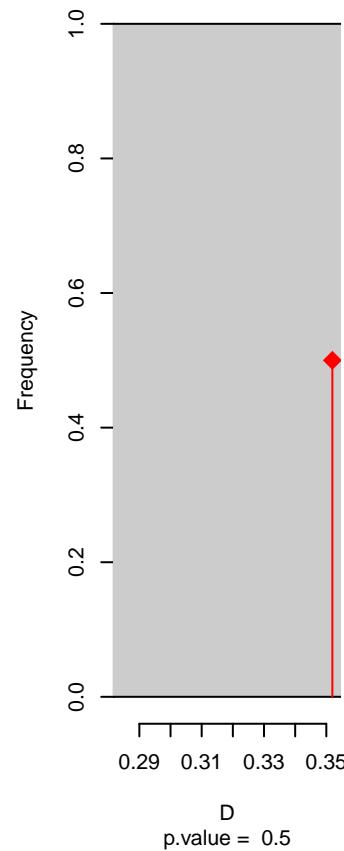
### Hirundo\_megaensis seasonal overlap



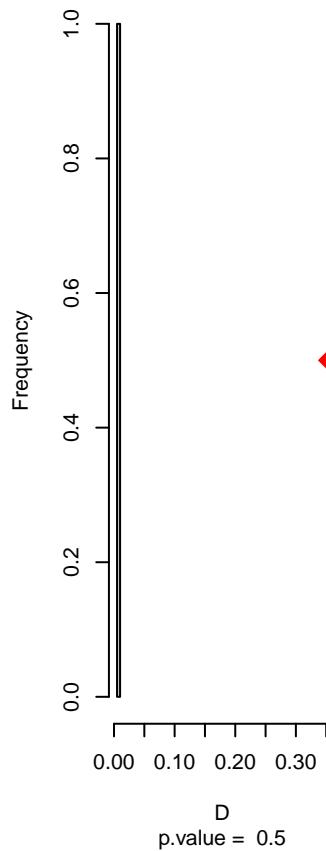
**Equivalency**



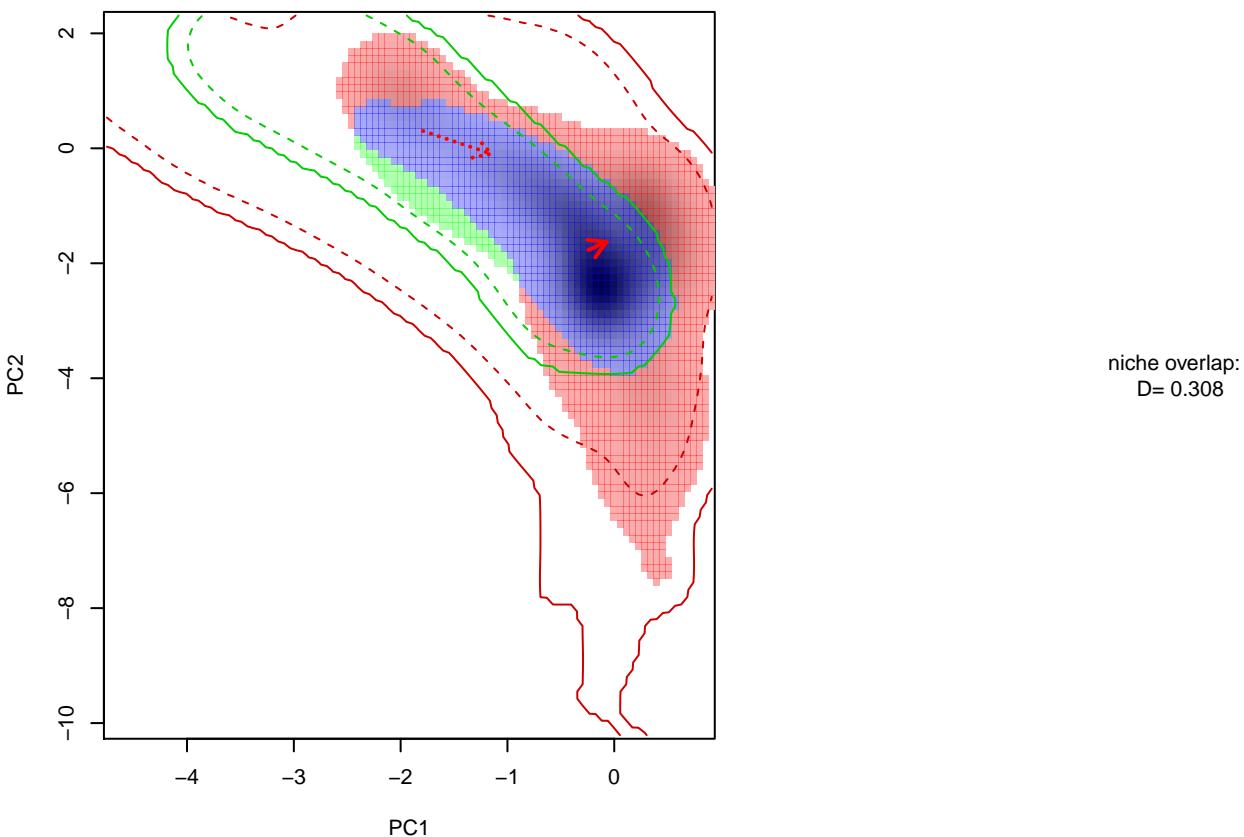
**Similarity 2→1**



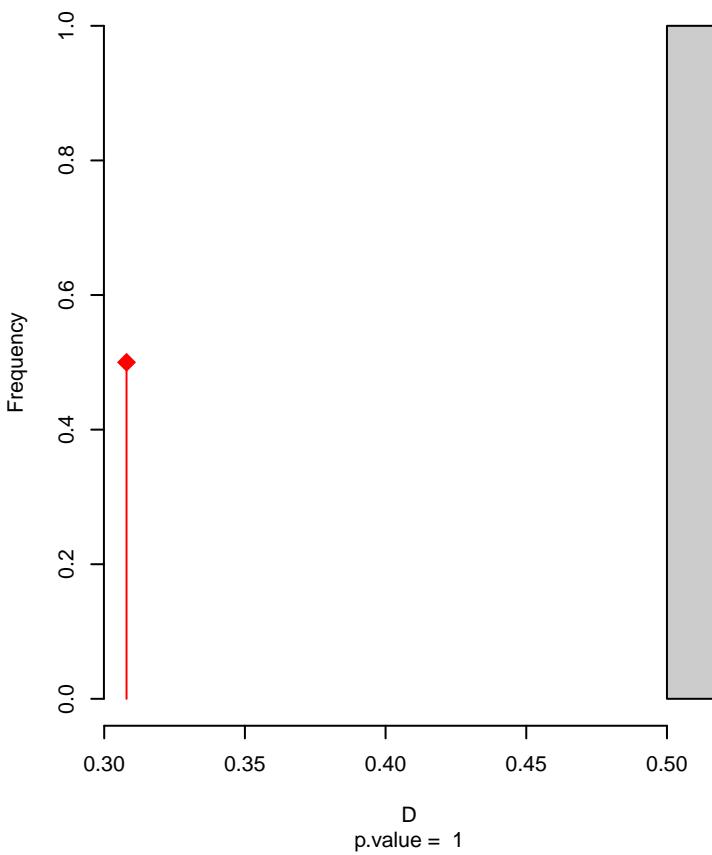
**Similarity 1→2**



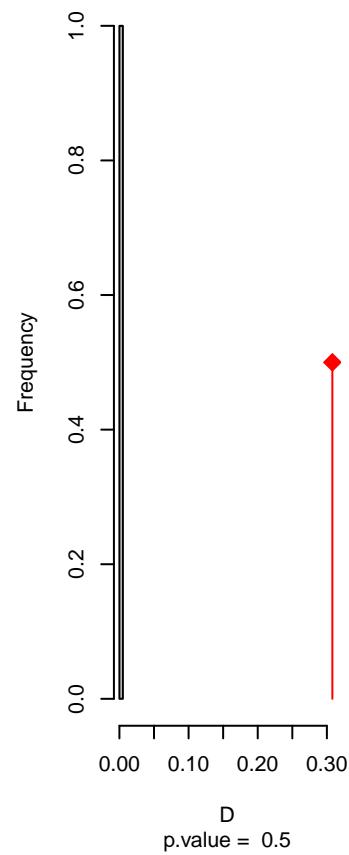
### Hirundo\_nigrita seasonal overlap



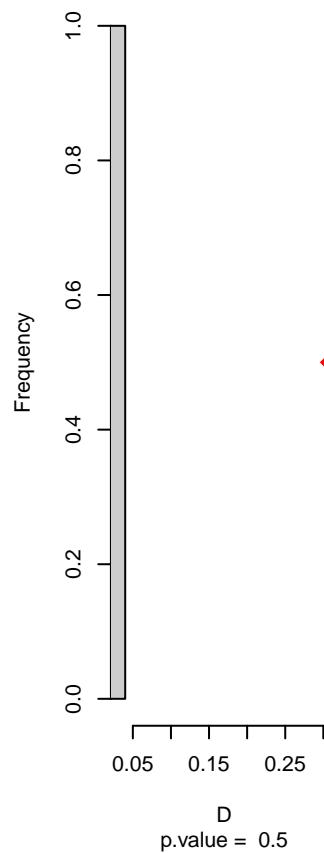
**Equivalency**



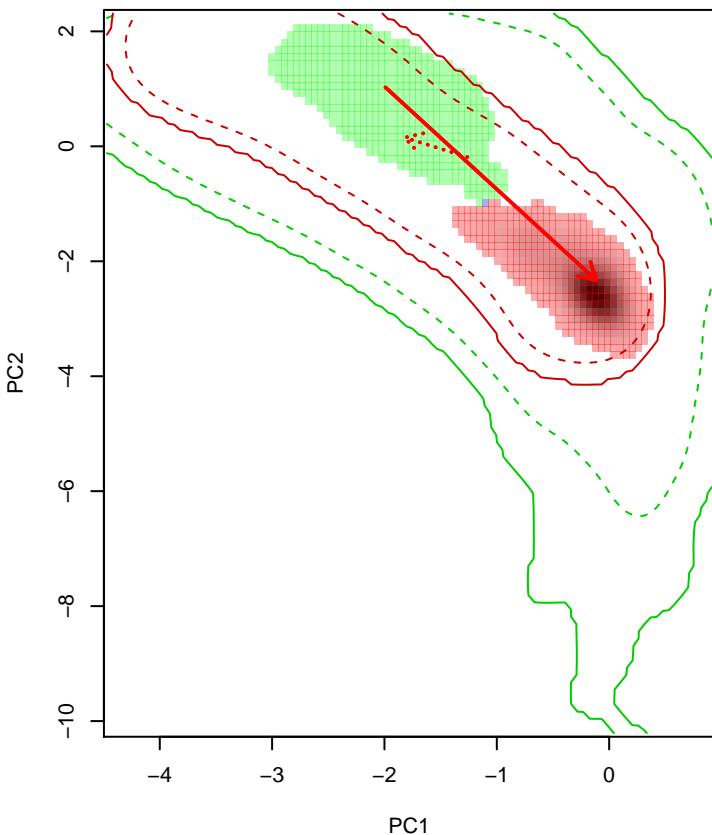
**Similarity 2→1**



**Similarity 1→2**

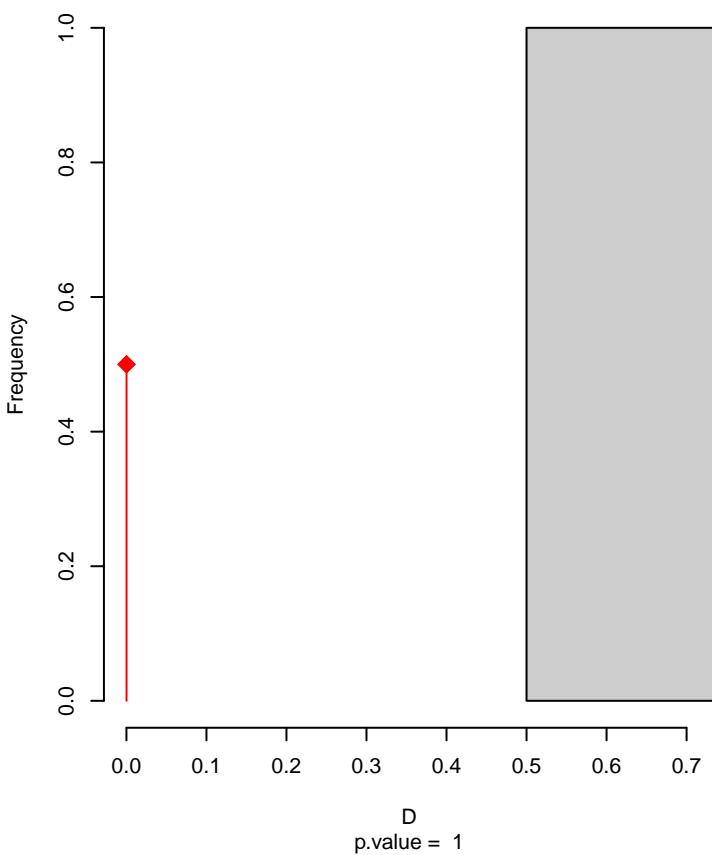


### Hirundo\_nigrorufa seasonal overlap

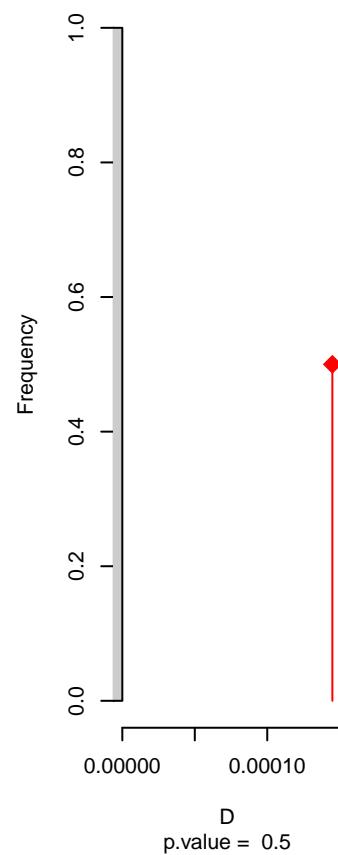


niche overlap:  
 $D = 0$

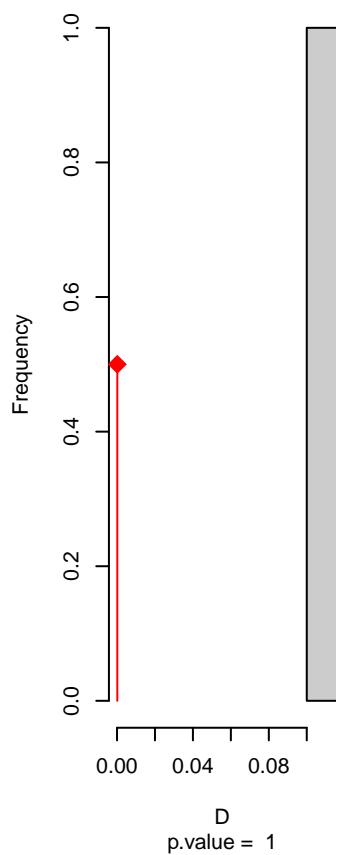
**Equivalency**



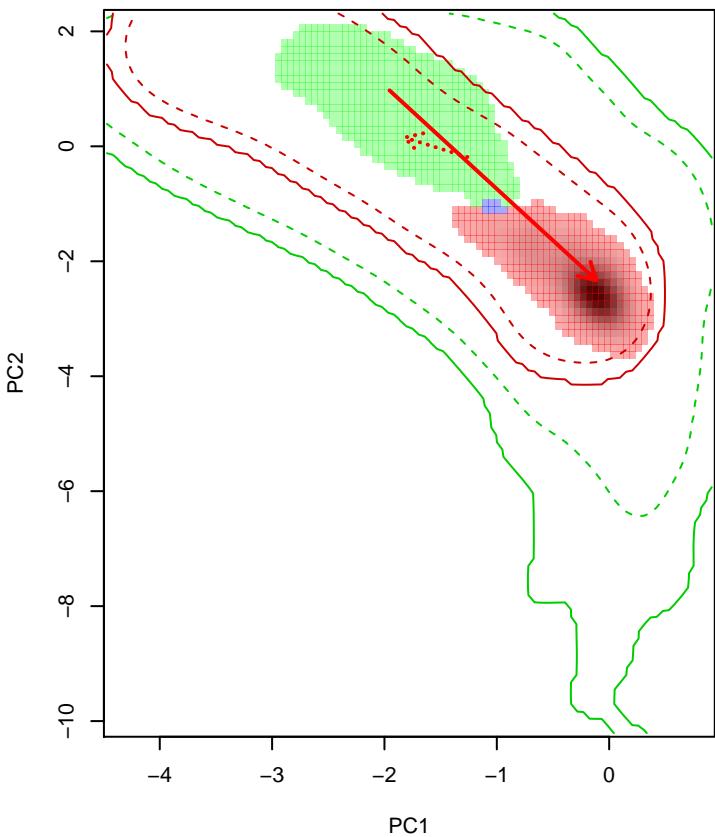
**Similarity 2→1**



**Similarity 1→2**

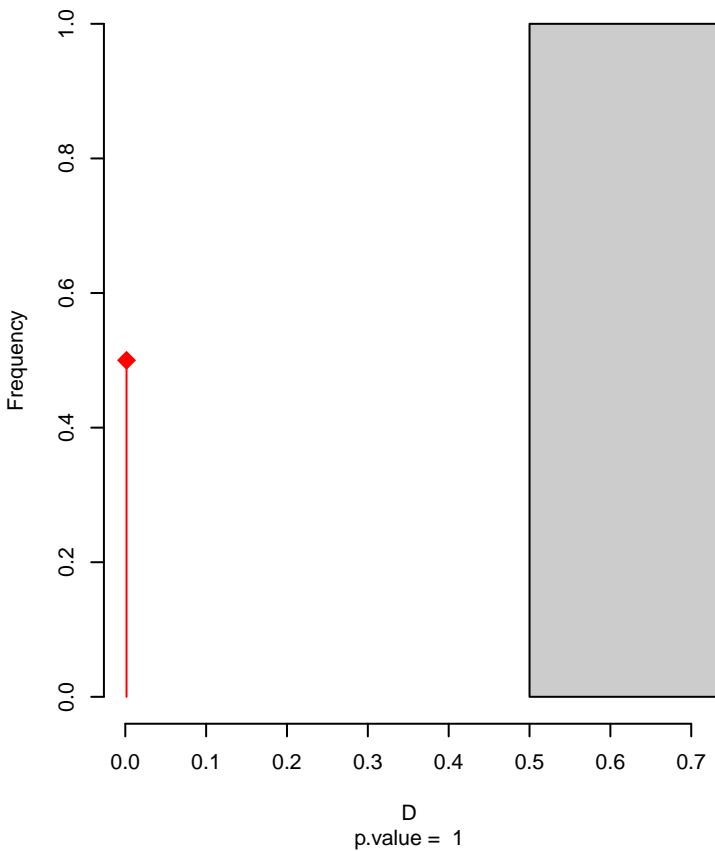


# Hirundo\_nigrorufa seasonal overlap–hypo.br

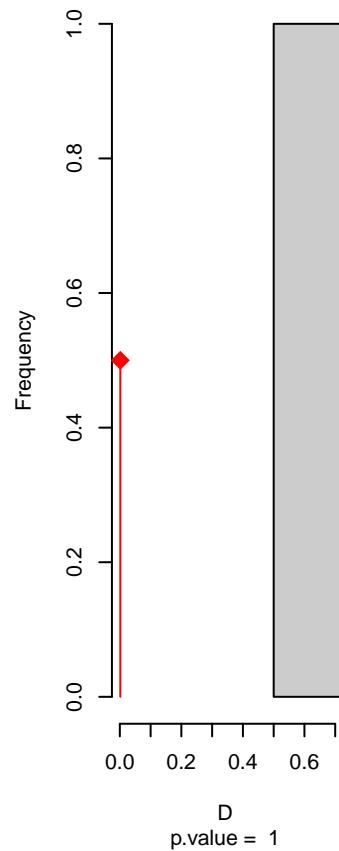


niche overlap:  
 $D = 0.002$

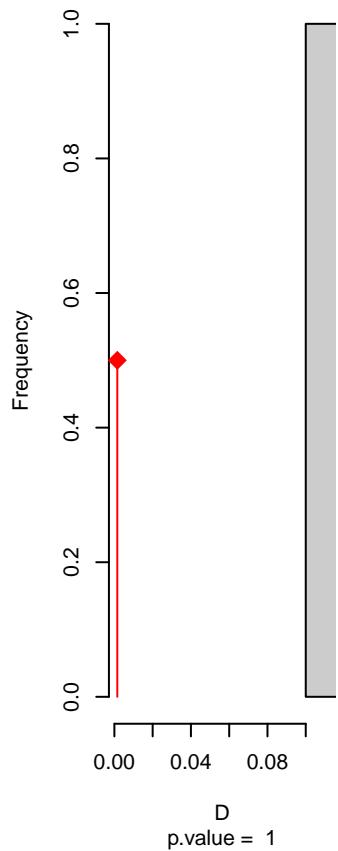
Equivalency



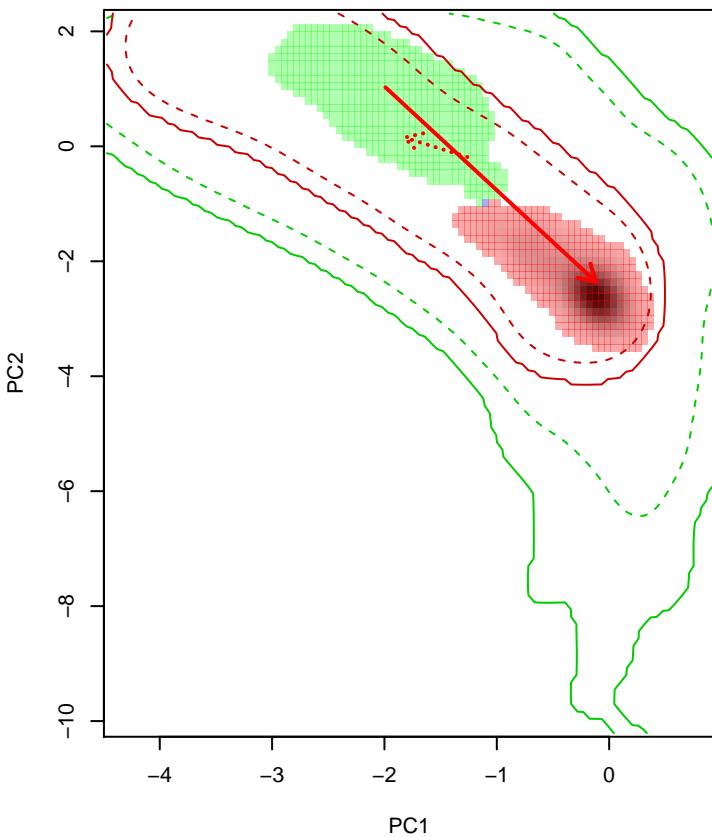
Similarity 2→1



Similarity 1→2

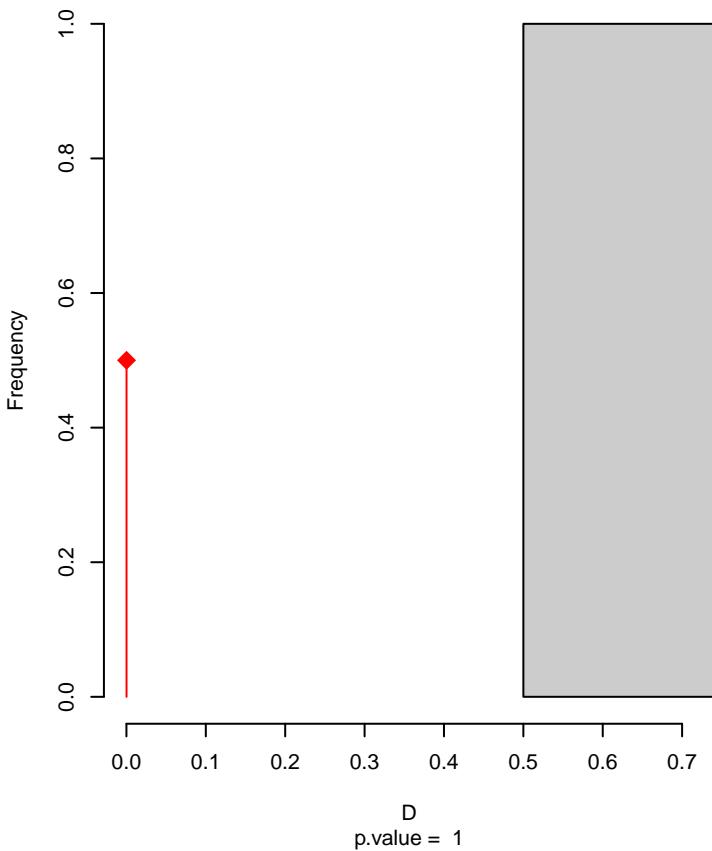


# Hirundo\_nigrorufa seasonal overlap–hypo wi

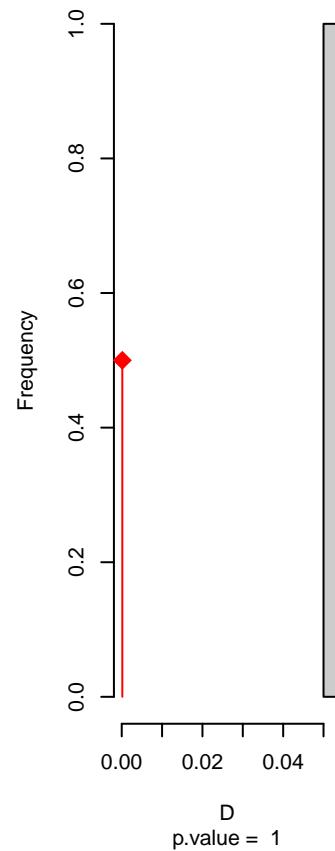


niche overlap:  
 $D = 0$

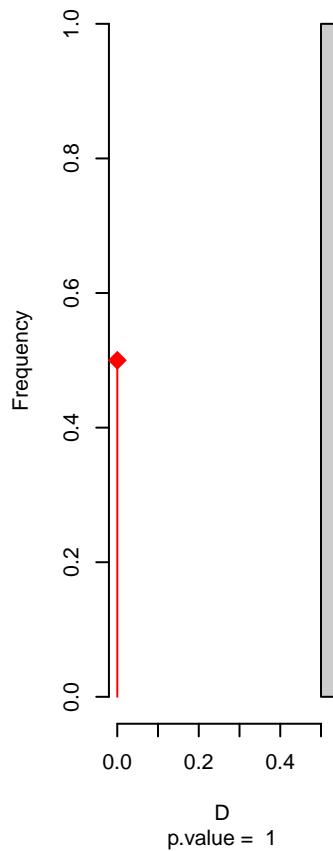
Equivalency



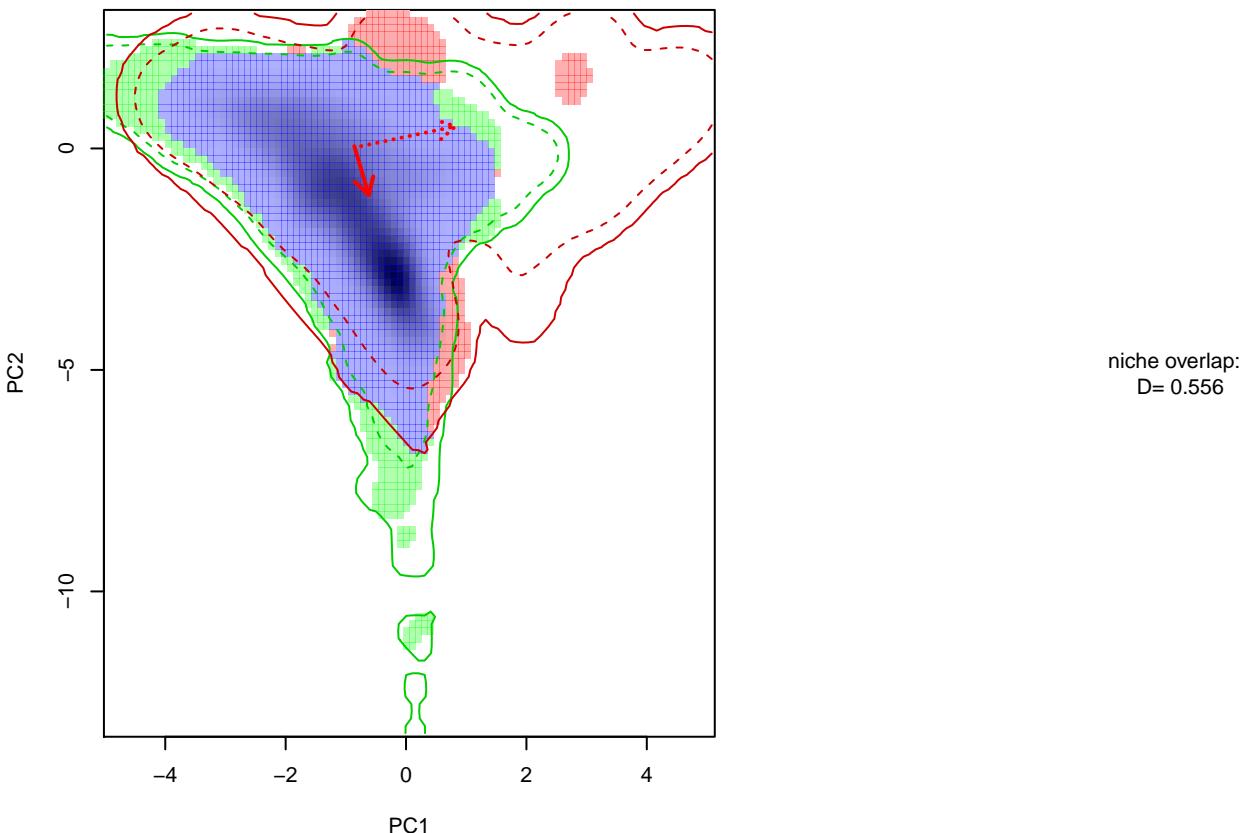
Similarity 2→1



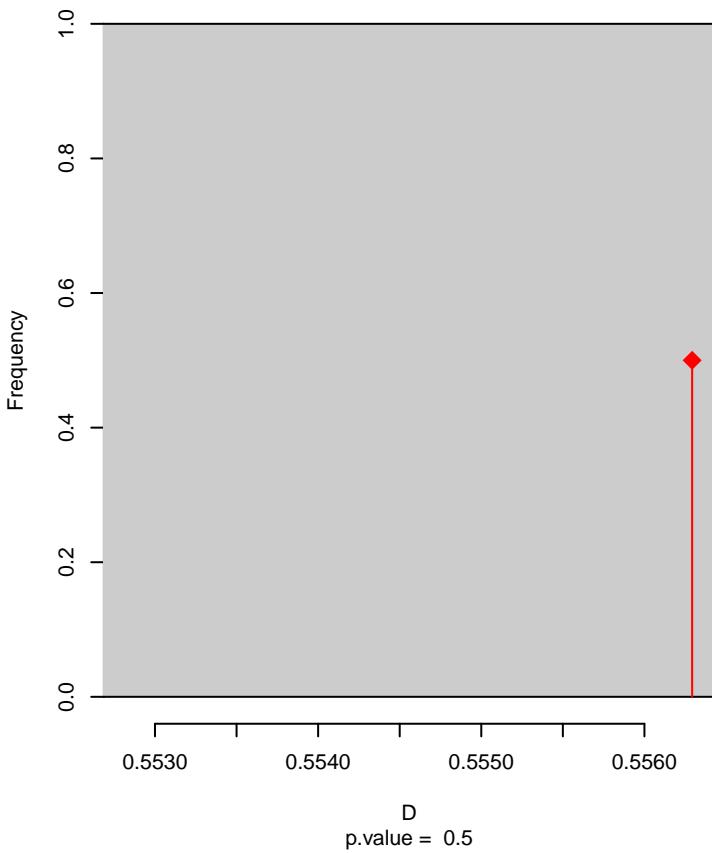
Similarity 1→2



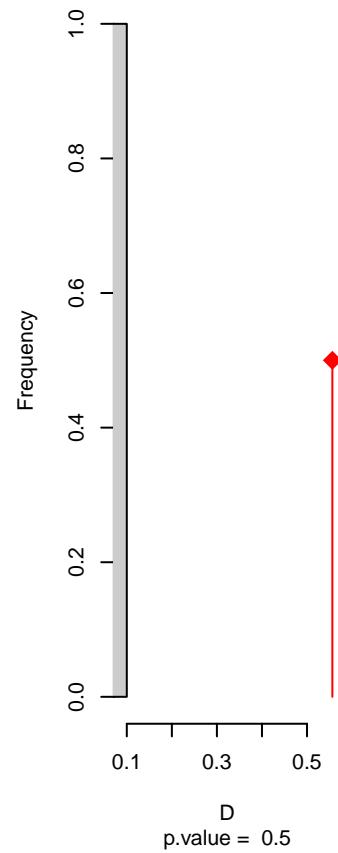
### Hirundo\_rustica seasonal overlap



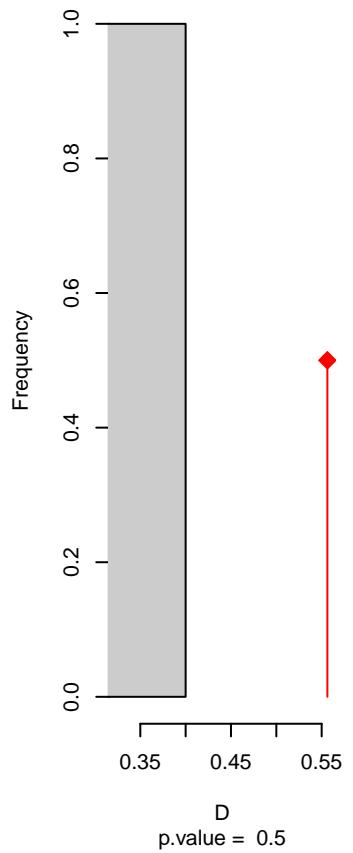
**Equivalency**



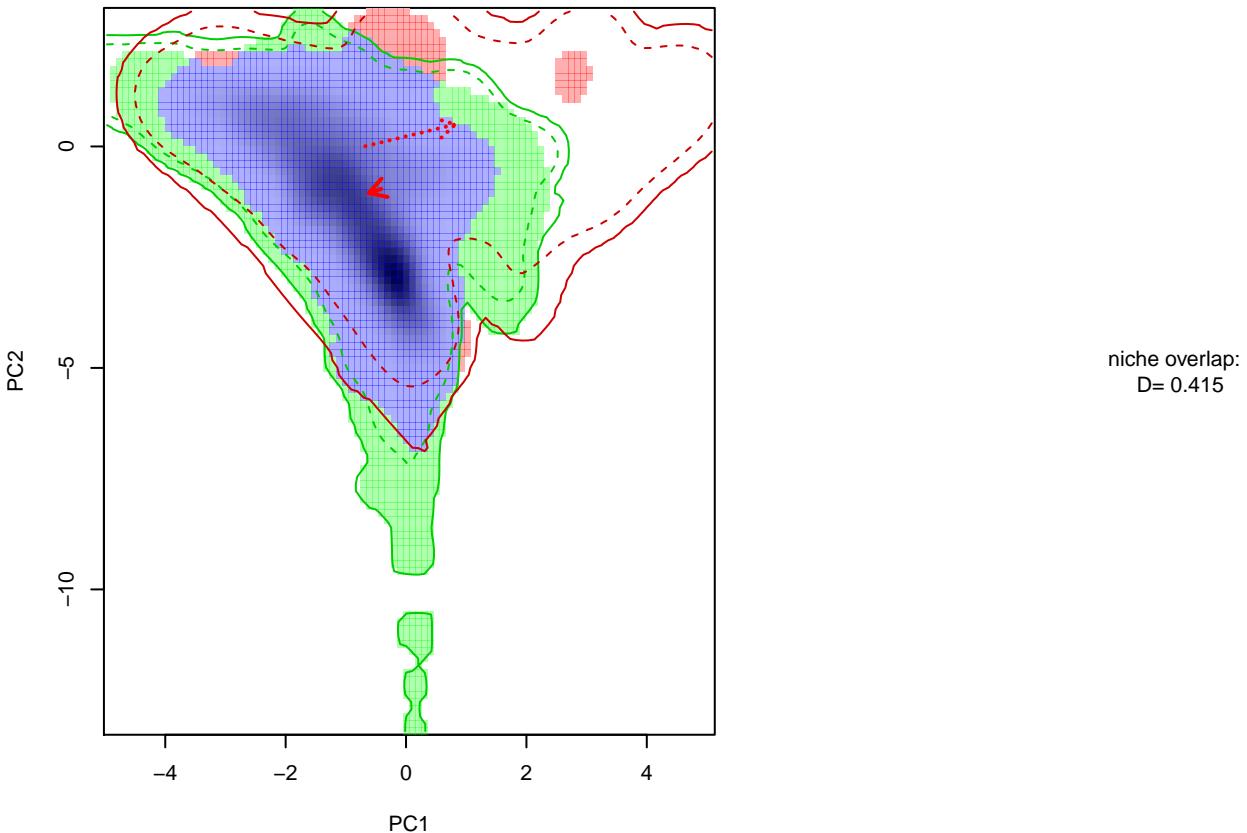
**Similarity 2→1**



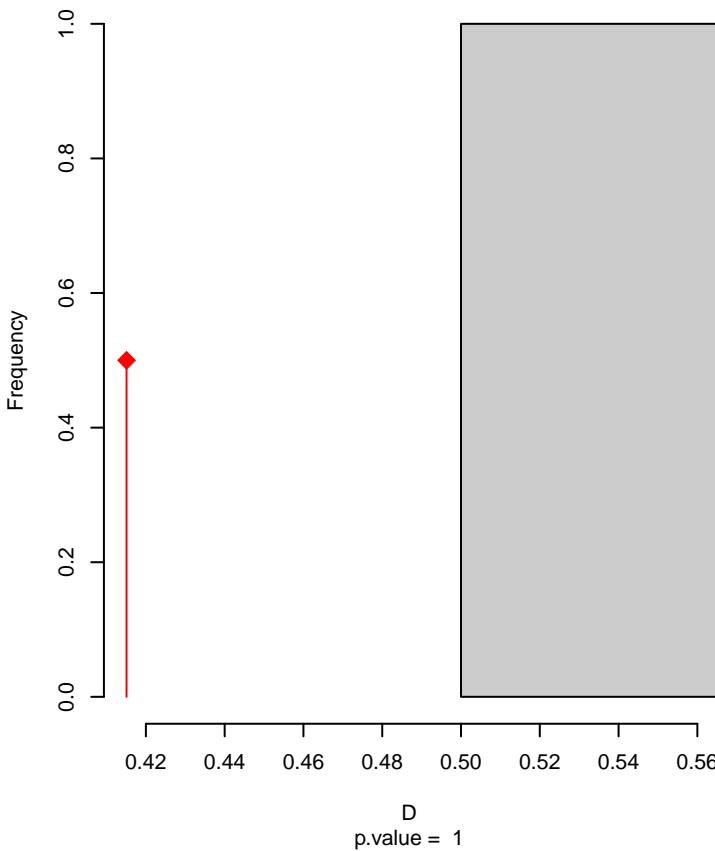
**Similarity 1→2**



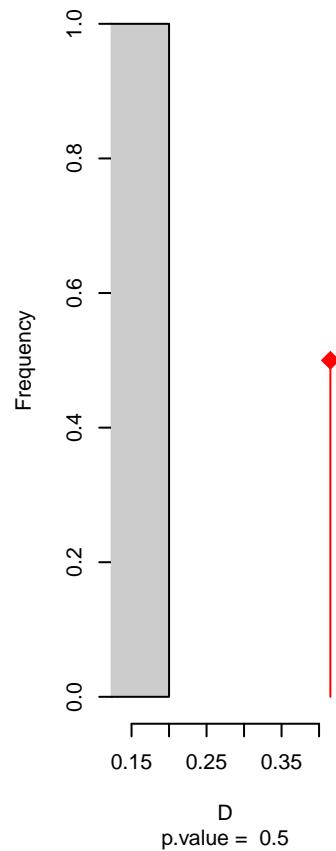
# Hirundo\_rustica seasonal overlap–hypo.br



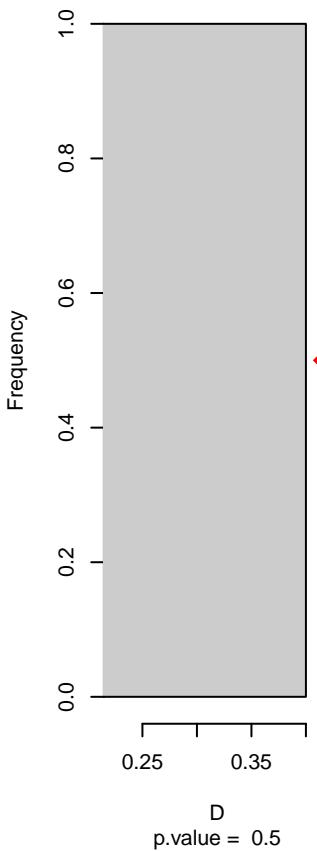
Equivalency



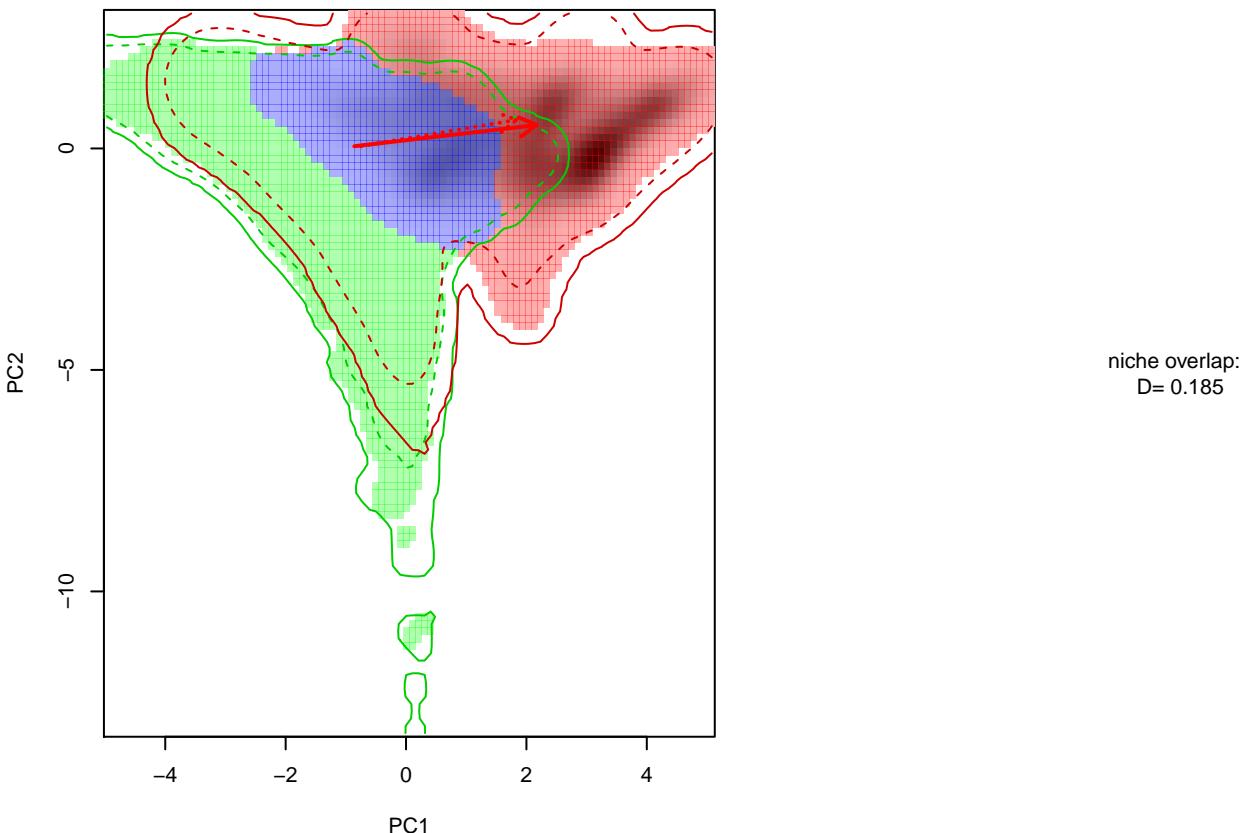
Similarity 2→1



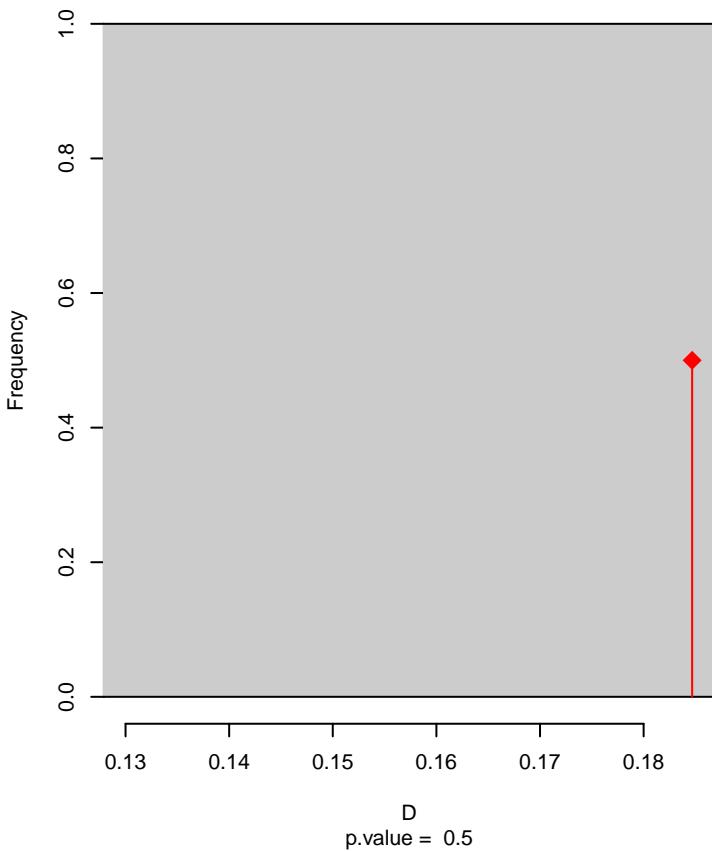
Similarity 1→2



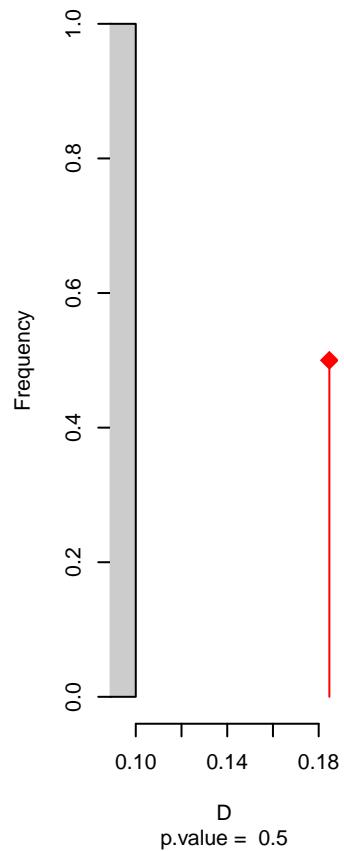
# Hirundo\_rustica seasonal overlap–hypo wi



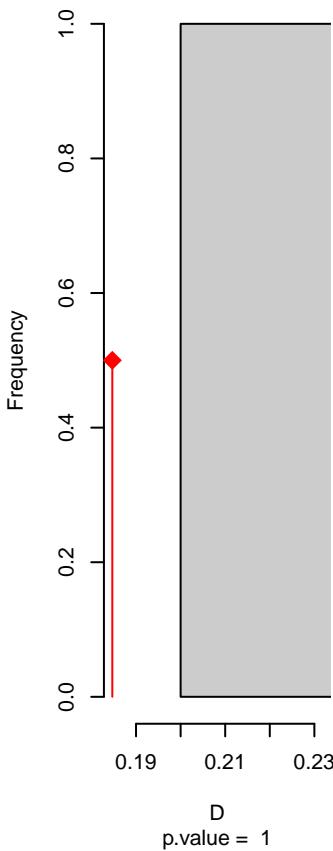
Equivalency



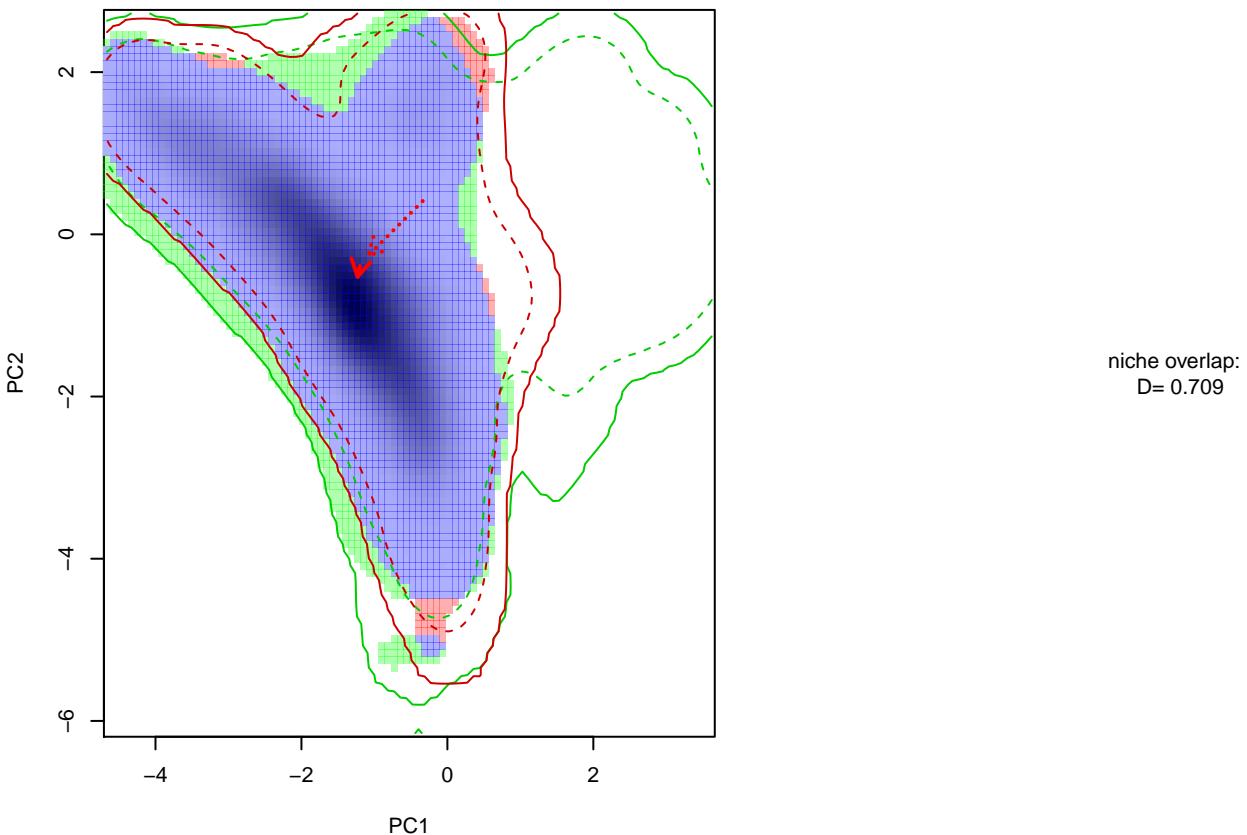
Similarity 2→1



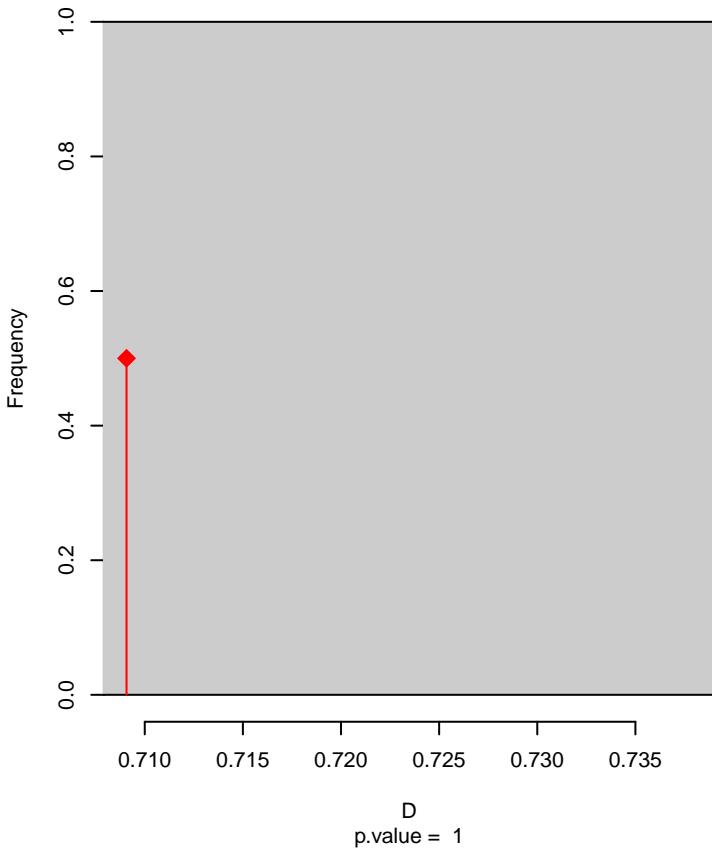
Similarity 1→2



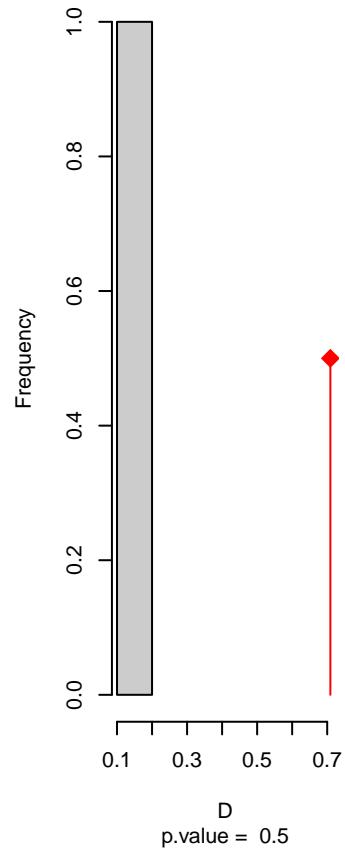
### Hirundo\_smithii seasonal overlap



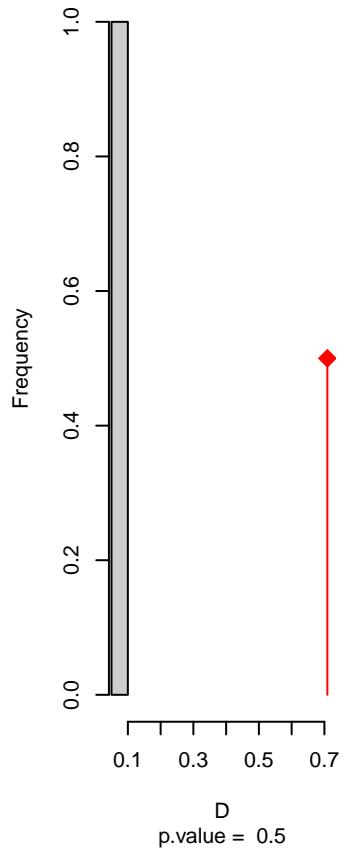
**Equivalency**



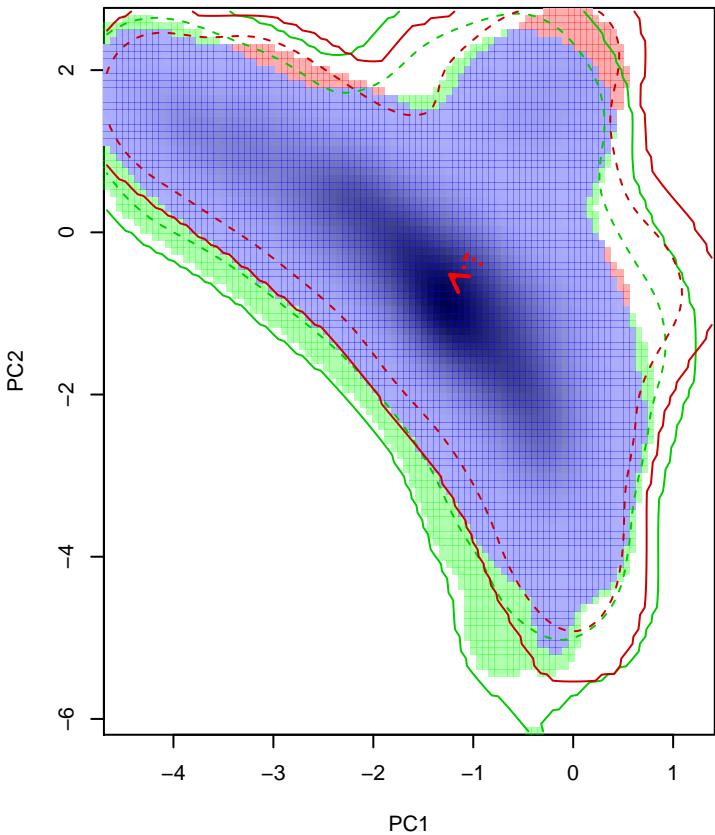
**Similarity 2→1**



**Similarity 1→2**

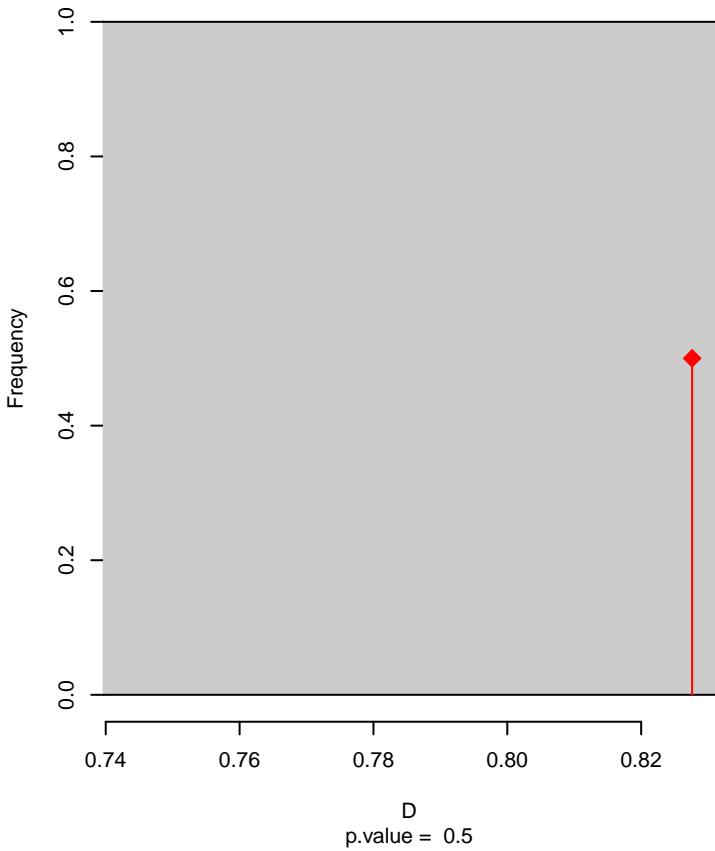


# Hirundo\_smithii seasonal overlap–hypo.br



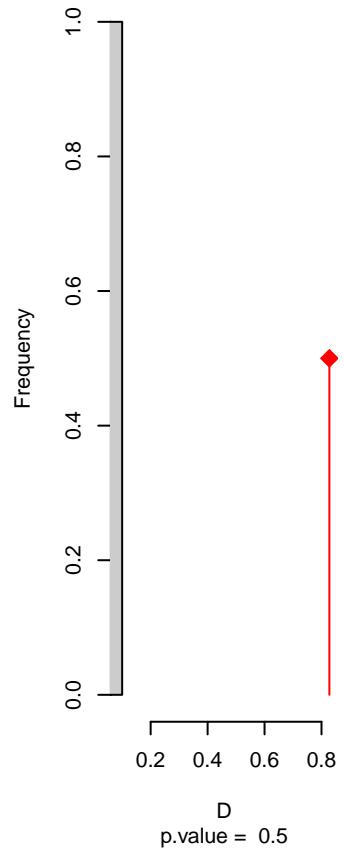
niche overlap:  
 $D = 0.828$

Equivalency



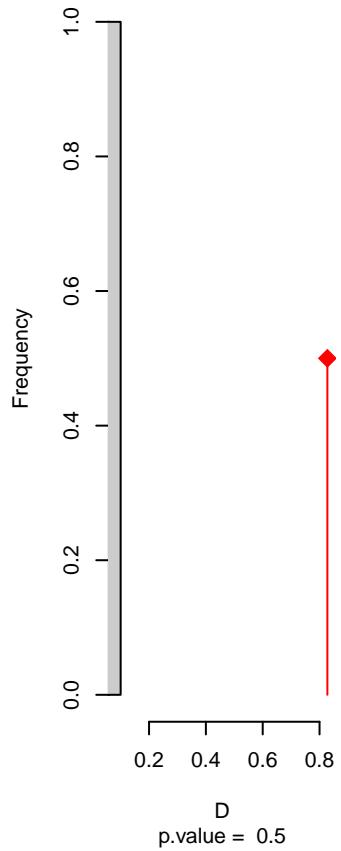
$D$   
p.value = 0.5

Similarity 2→1



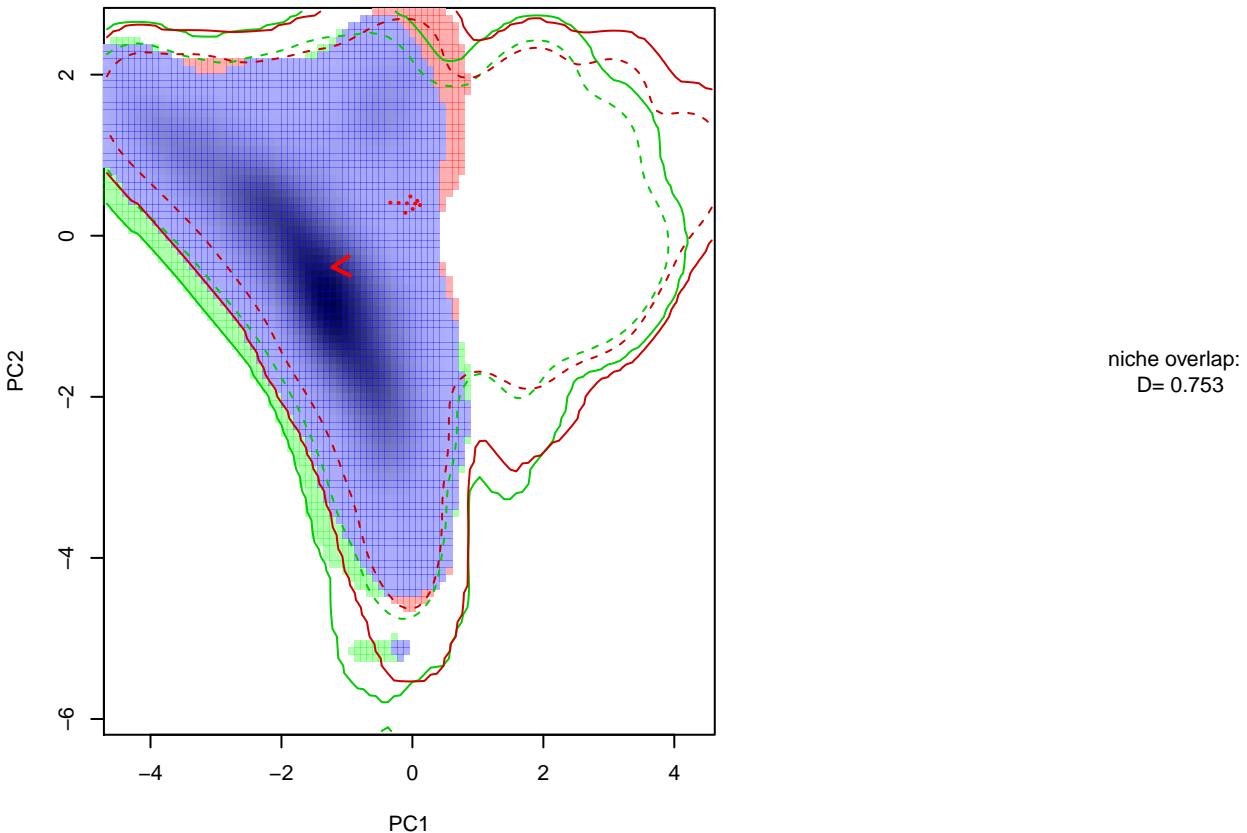
$D$   
p.value = 0.5

Similarity 1→2

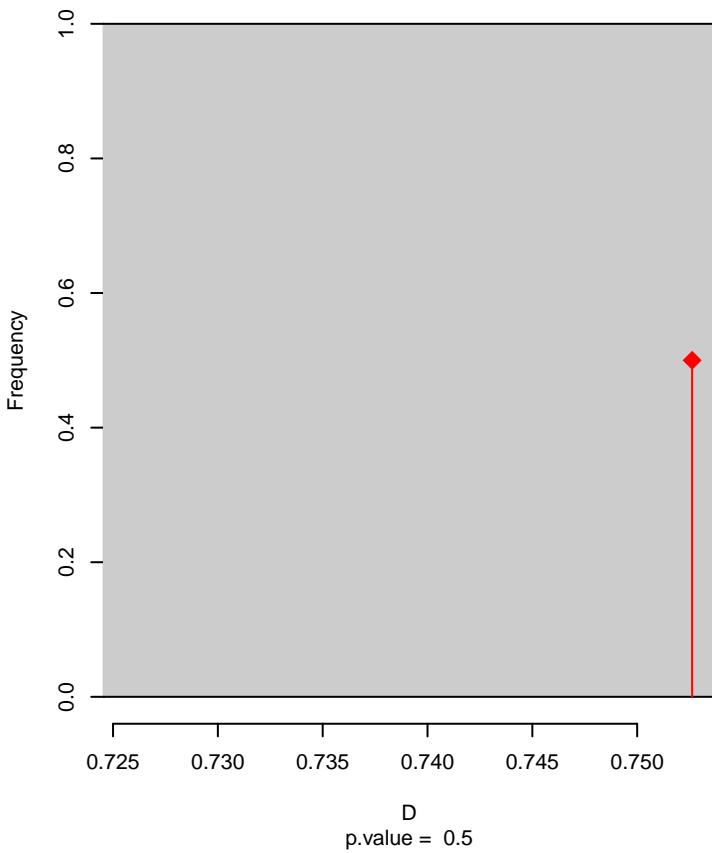


$D$   
p.value = 0.5

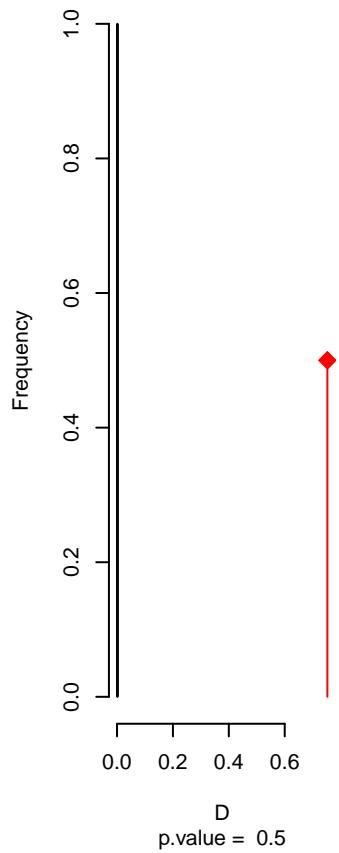
# Hirundo\_smithii seasonal overlap-hypo wi



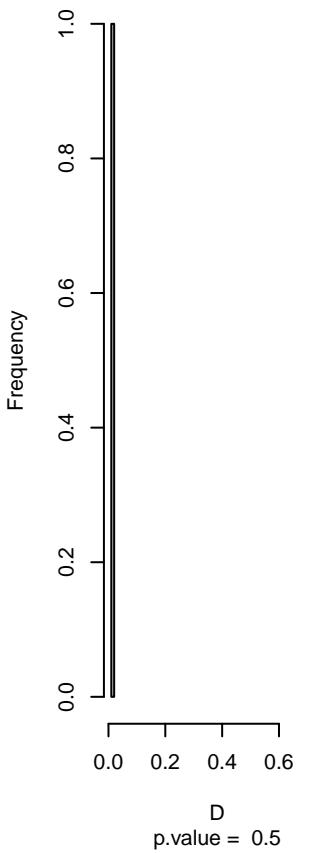
**Equivalency**



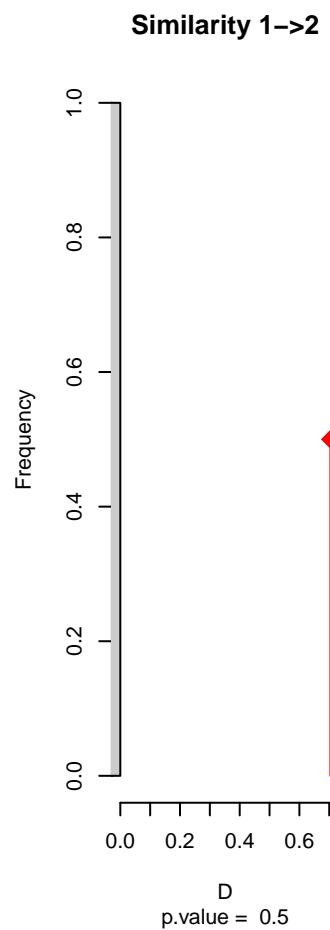
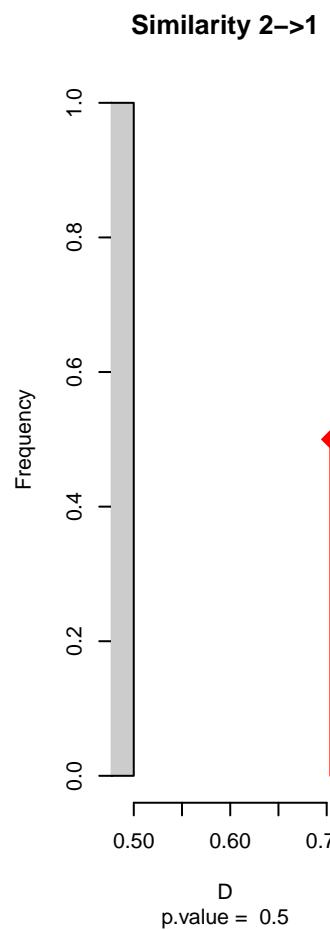
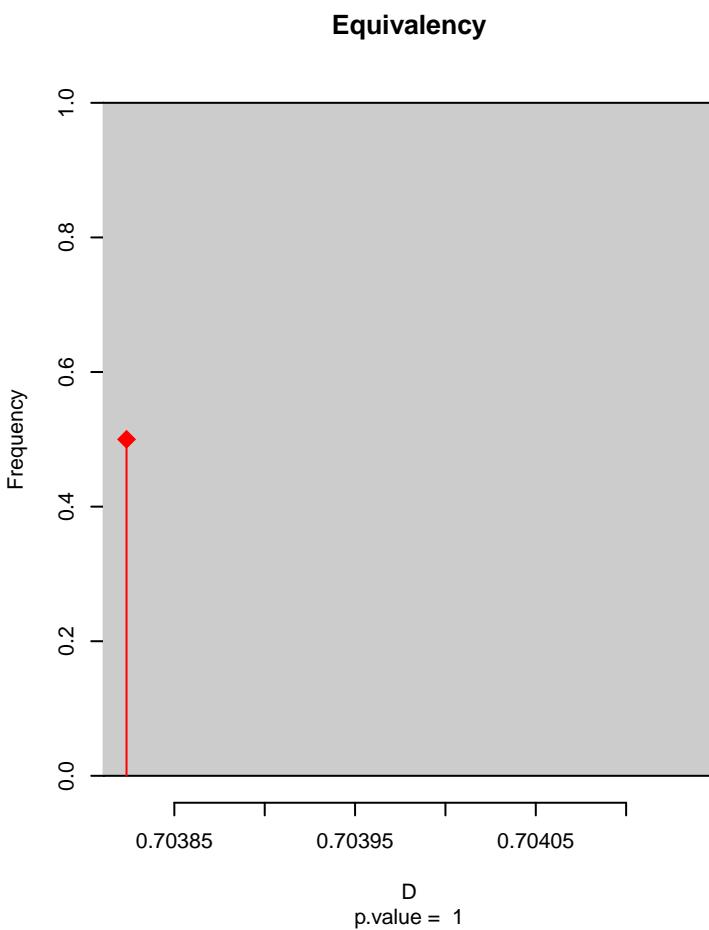
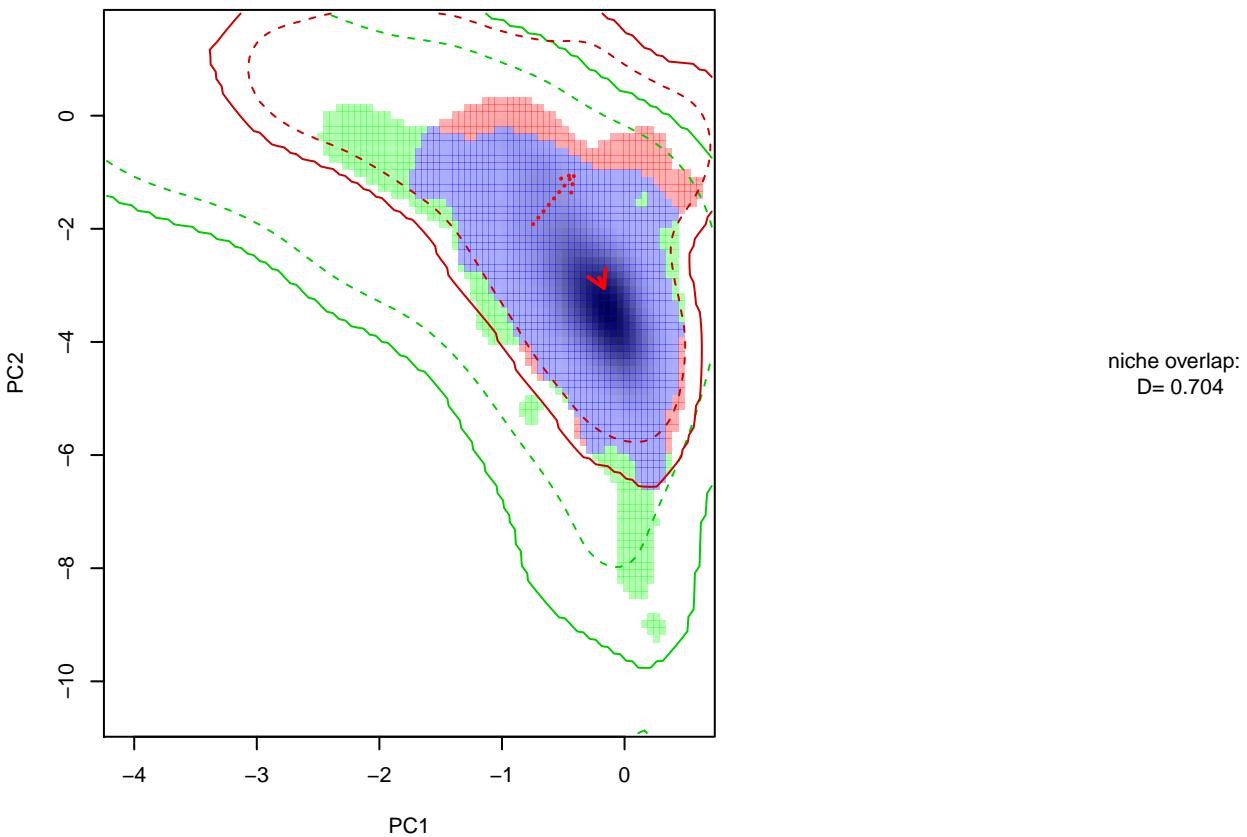
**Similarity 2→1**



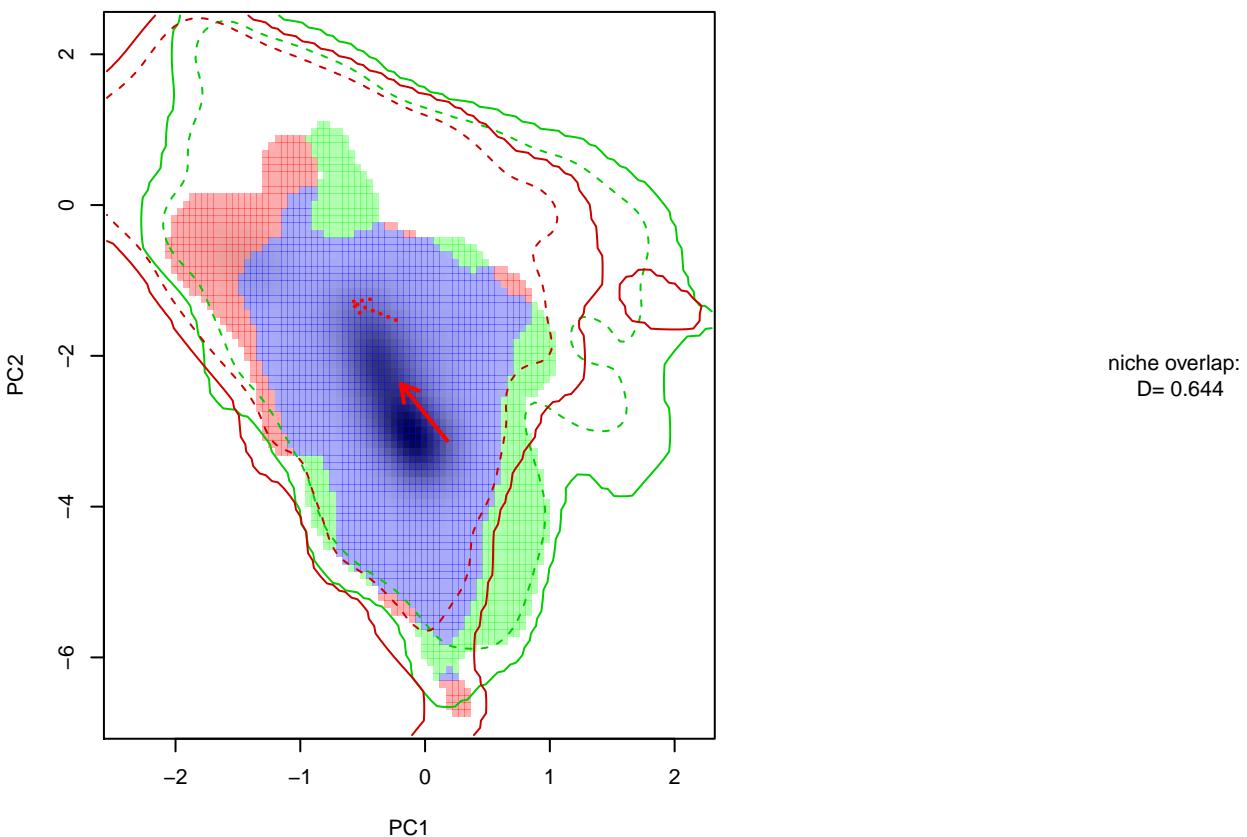
**Similarity 1→2**



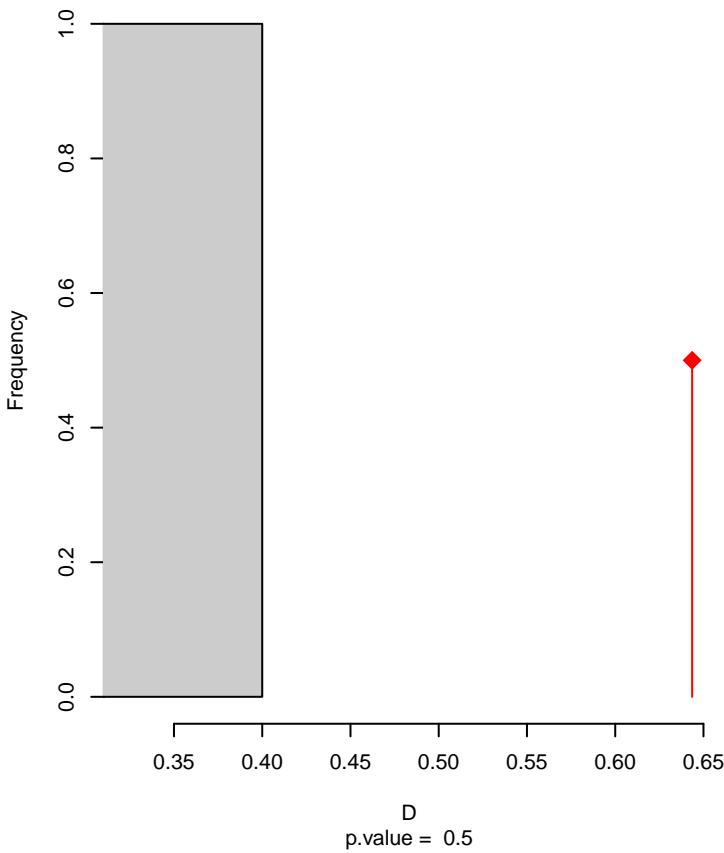
### Hirundo\_tahitica seasonal overlap



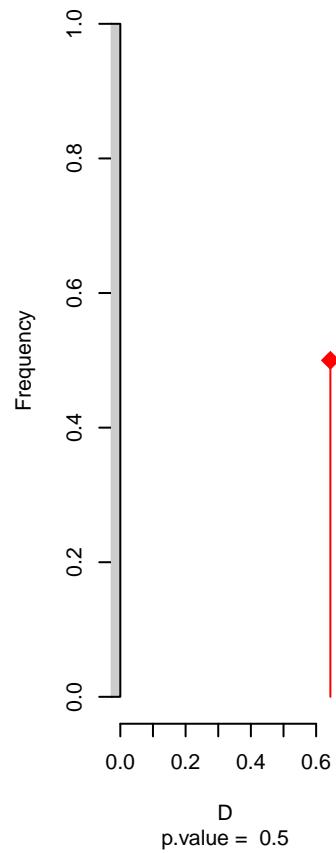
### **Neochelidon\_tibialis seasonal overlap**



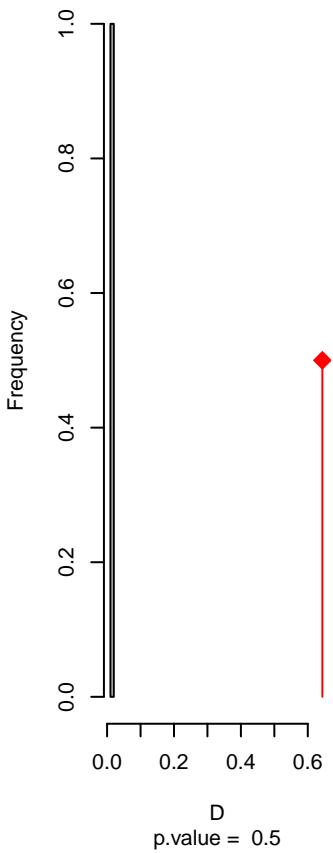
**Equivalency**



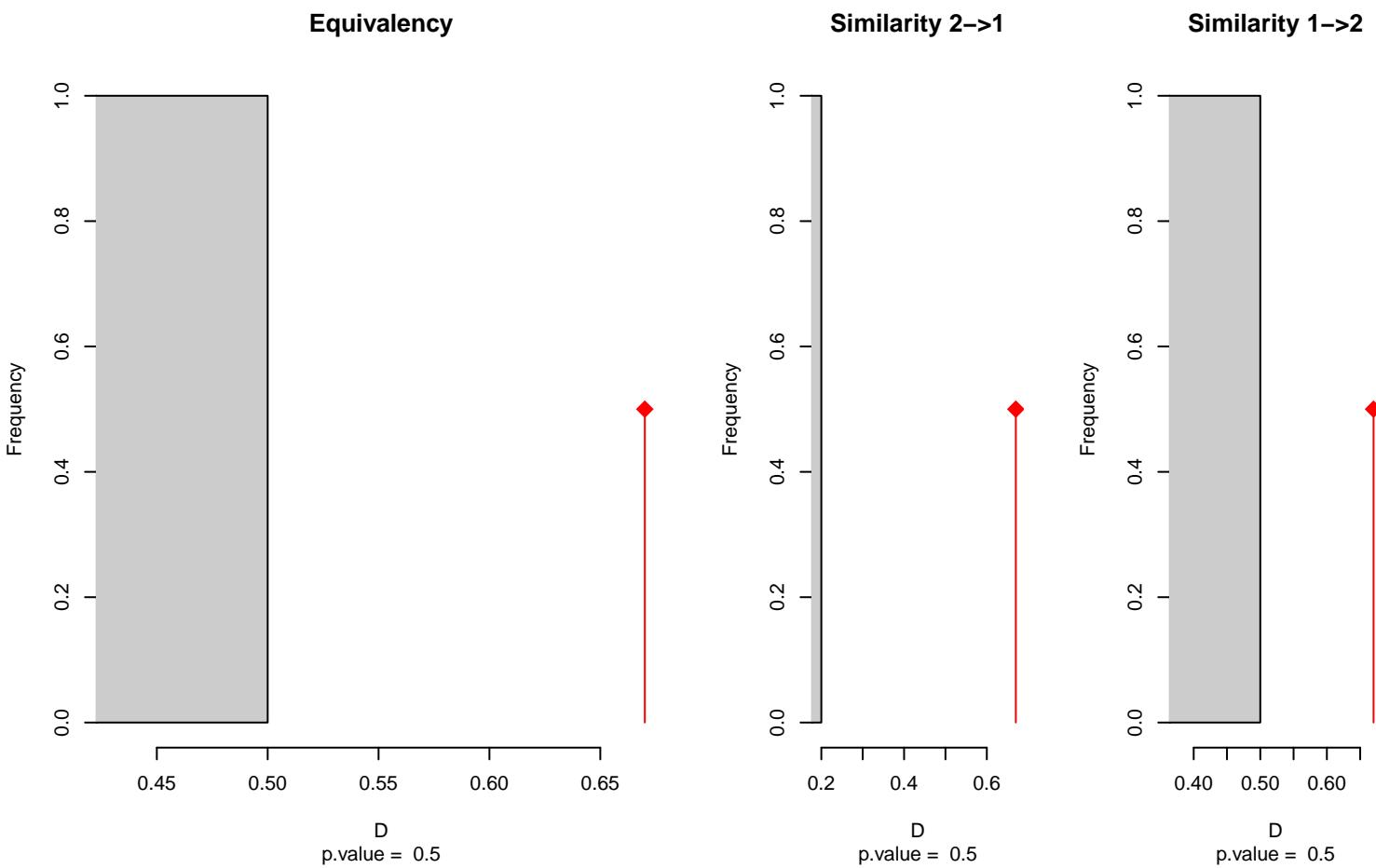
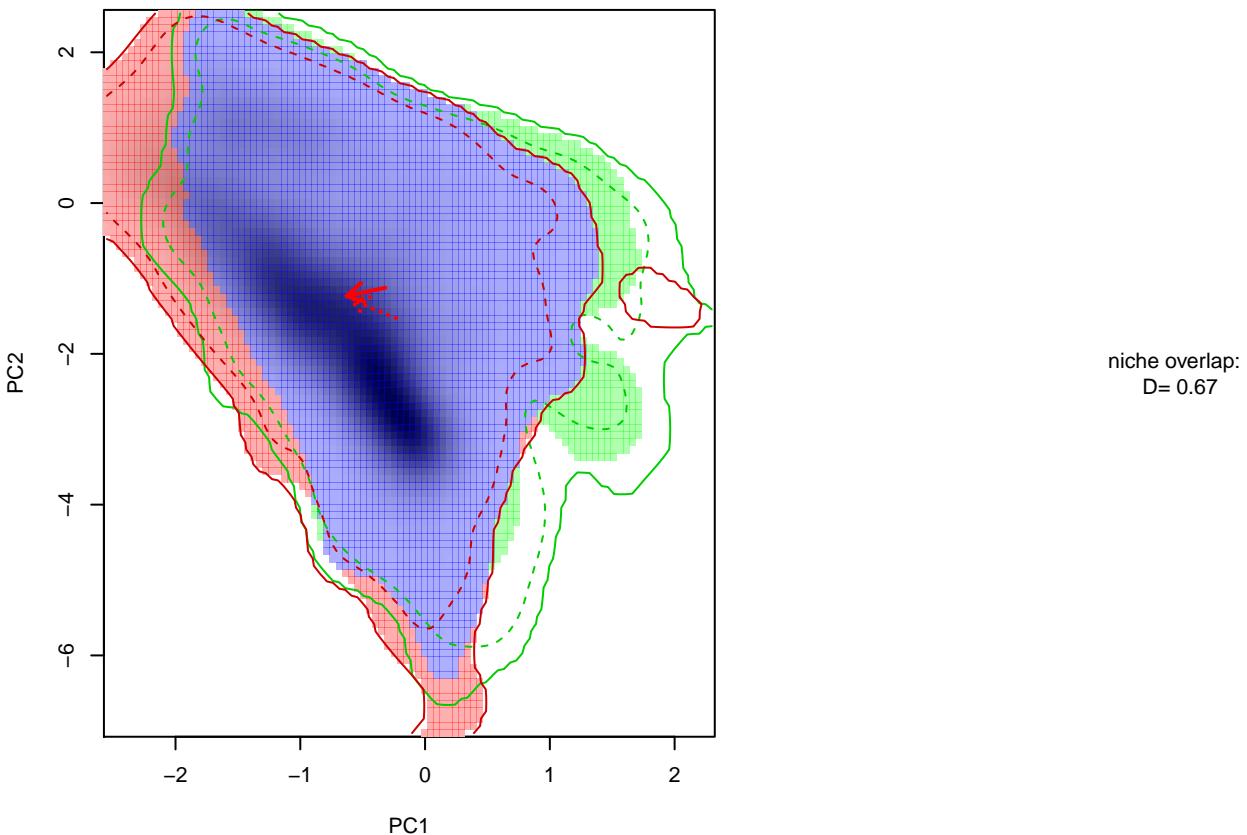
**Similarity 2→1**



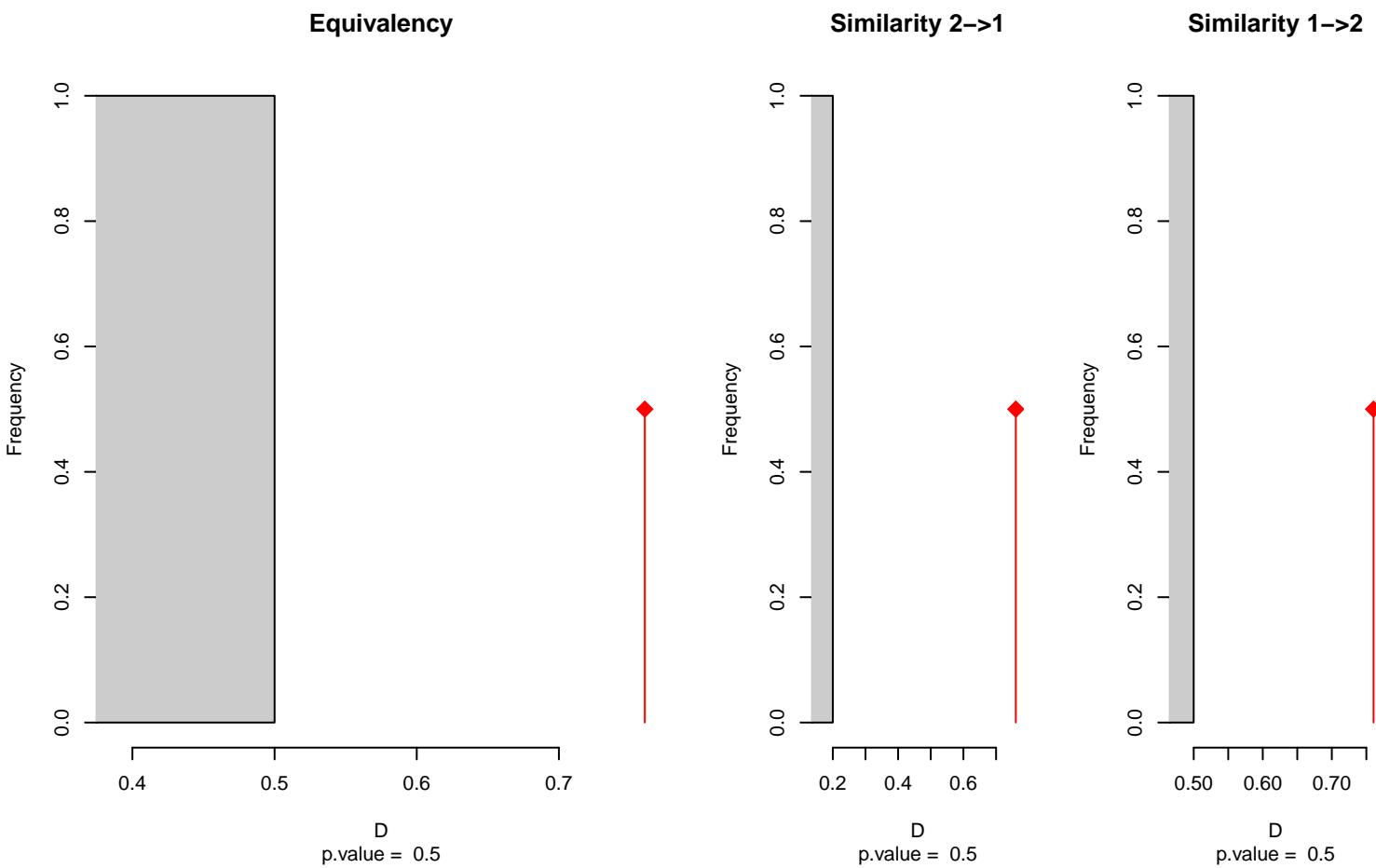
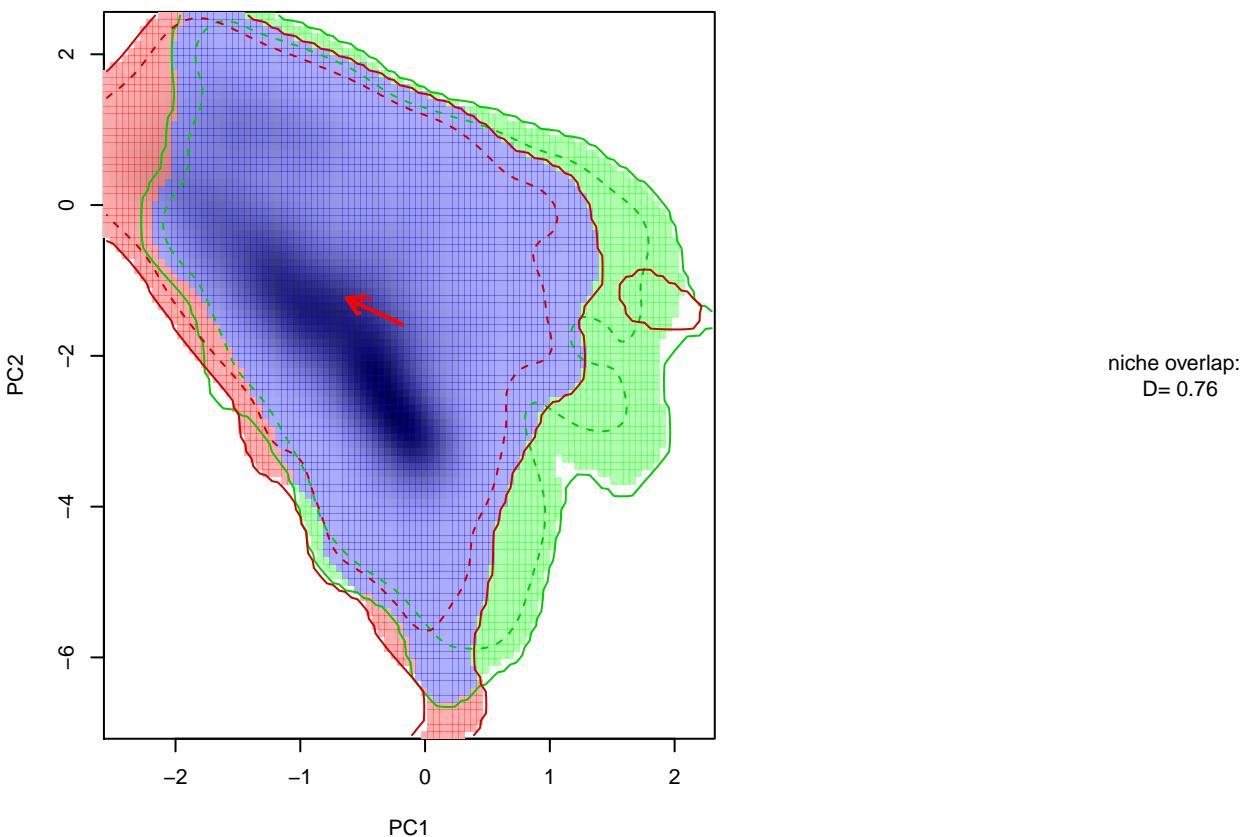
**Similarity 1→2**



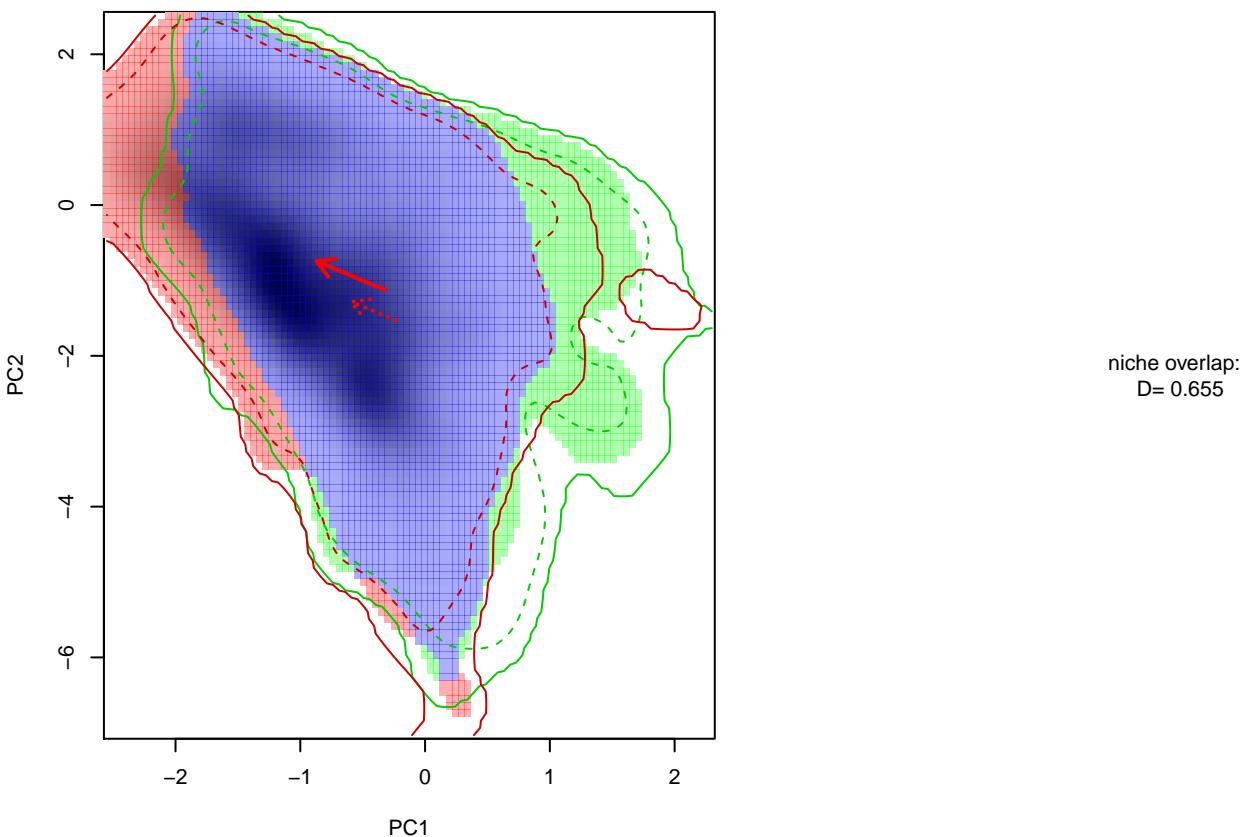
### Notiochelidon\_cyanoleuca seasonal overlap



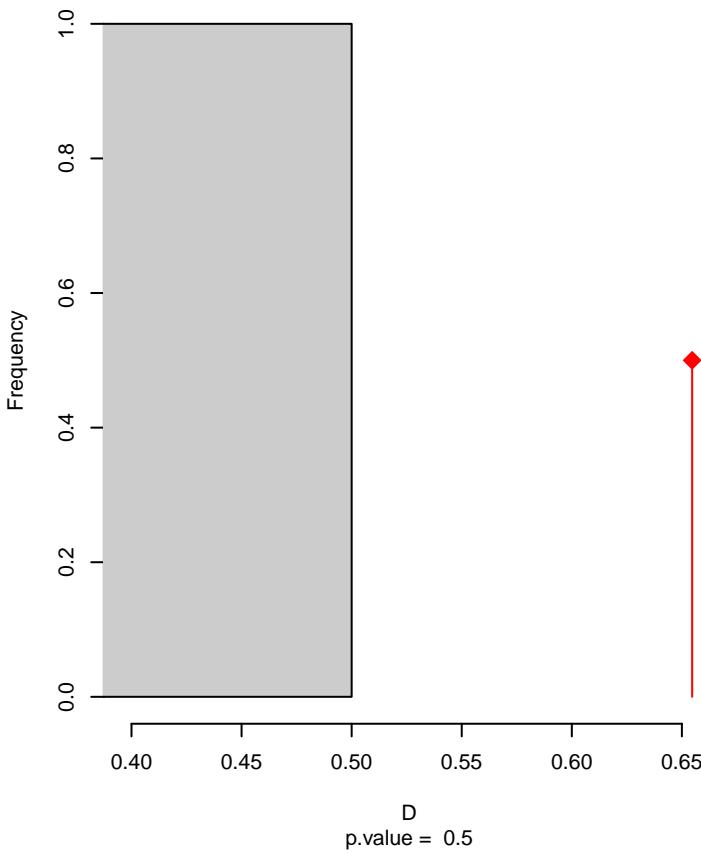
# *Notiochelidon cyanoleuca* seasonal overlap-hypo.br



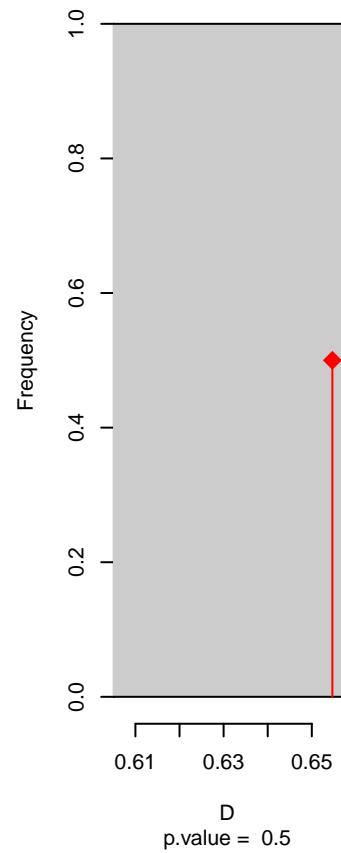
# *Notiochelidon cyanoleuca* seasonal overlap-hypo wi



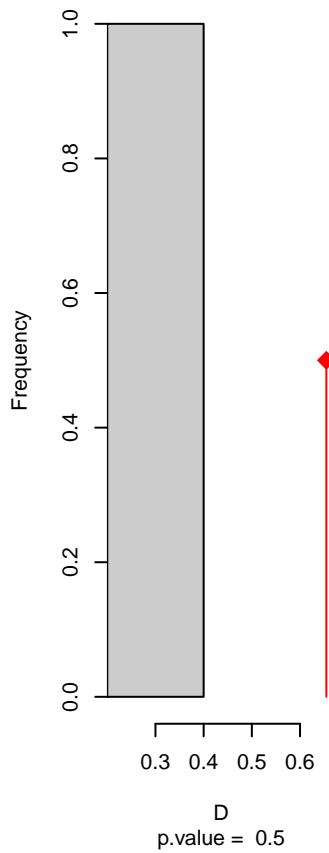
**Equivalency**



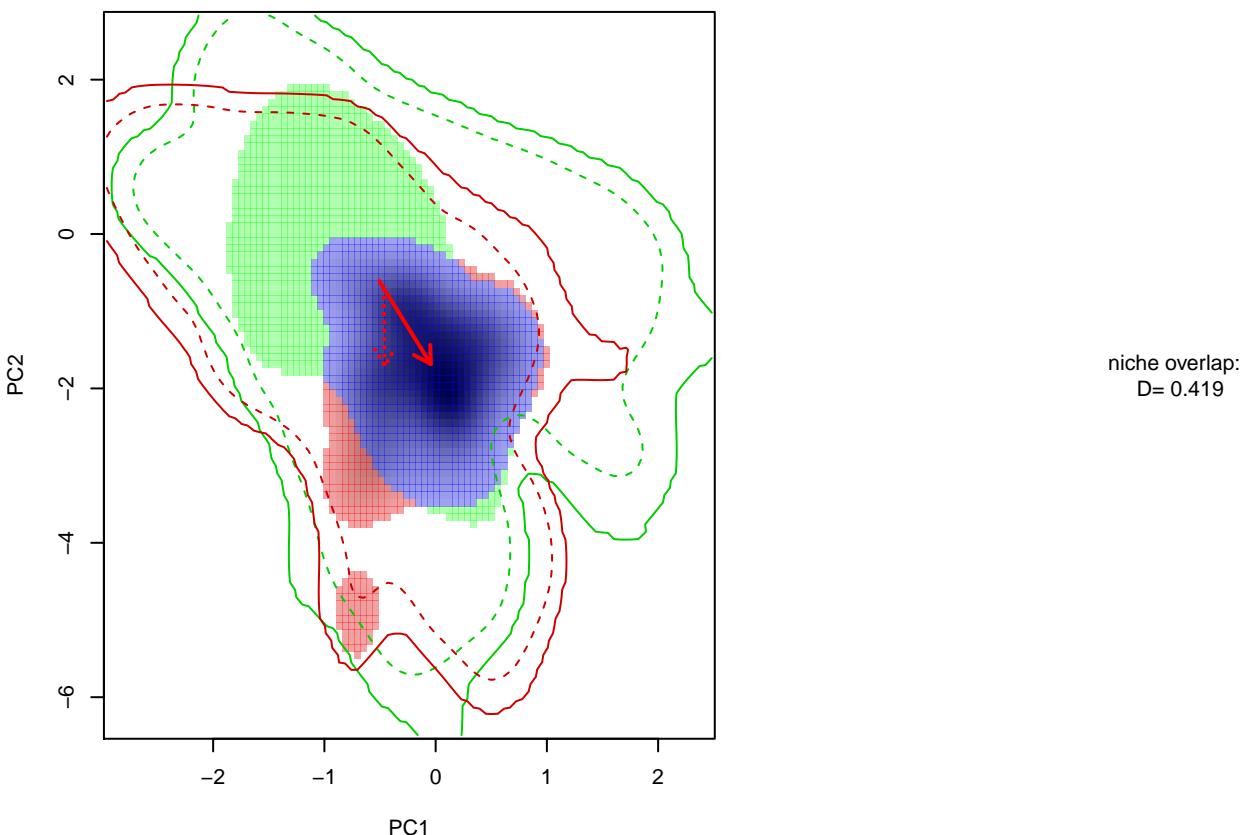
**Similarity 2→1**



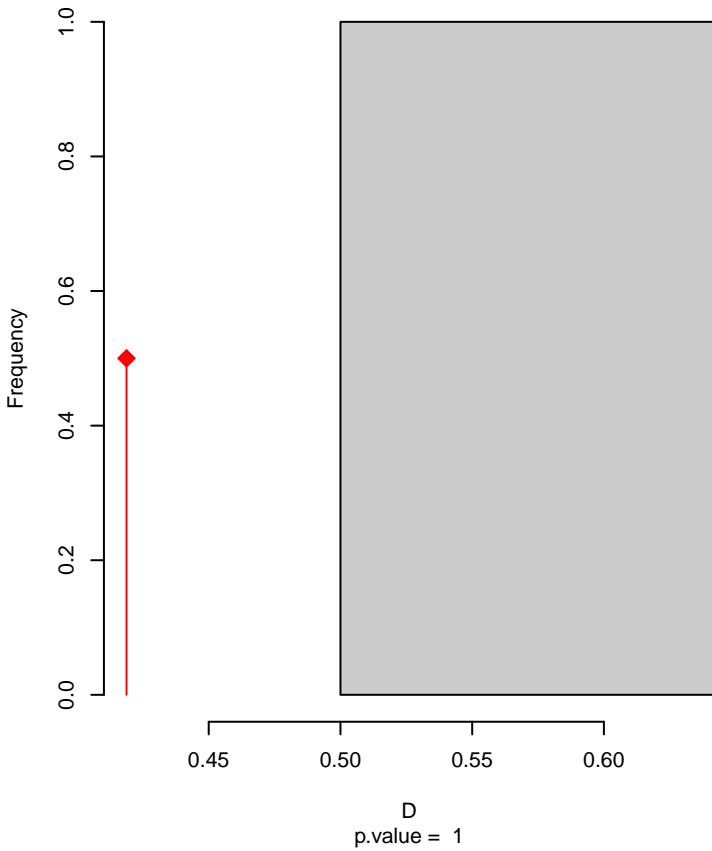
**Similarity 1→2**



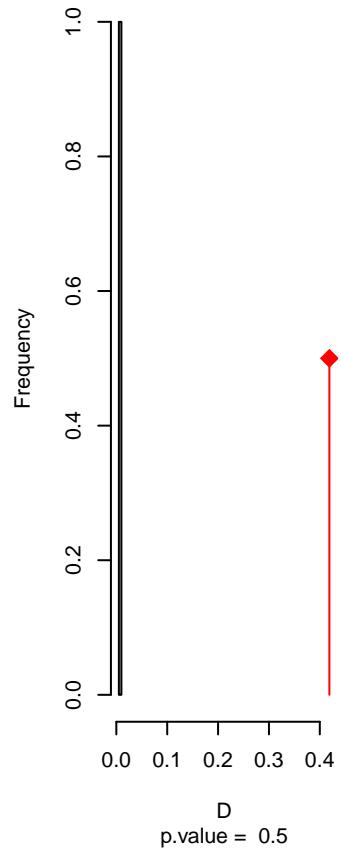
### Notiochelidon\_flavipes seasonal overlap



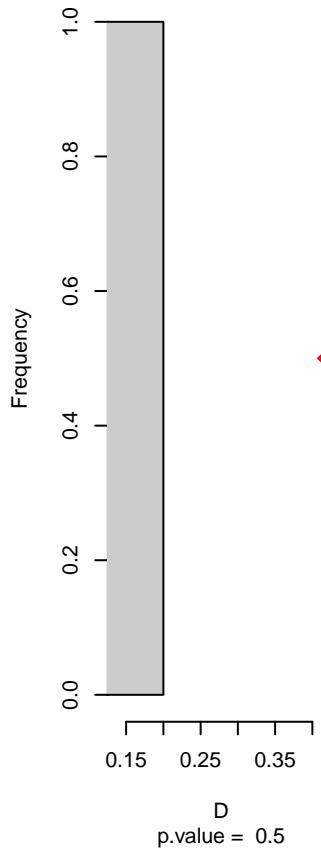
**Equivalency**



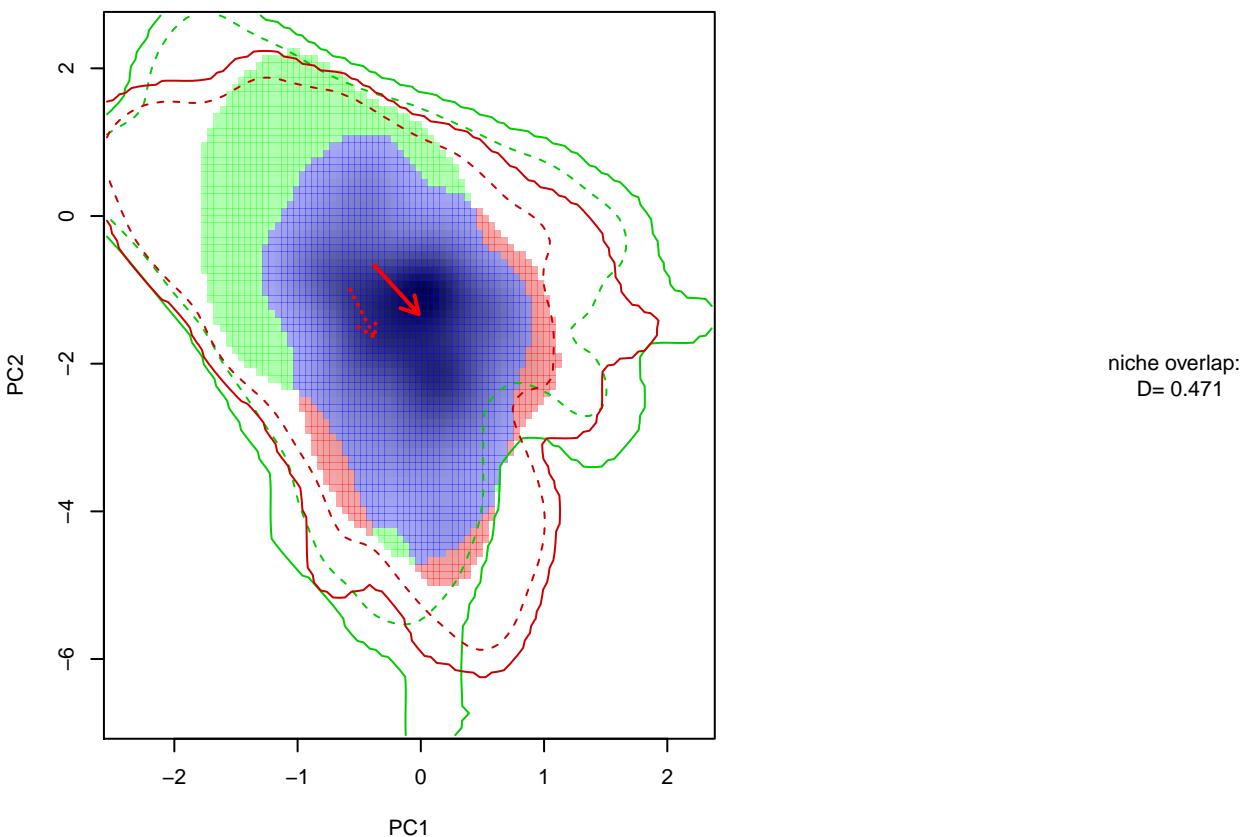
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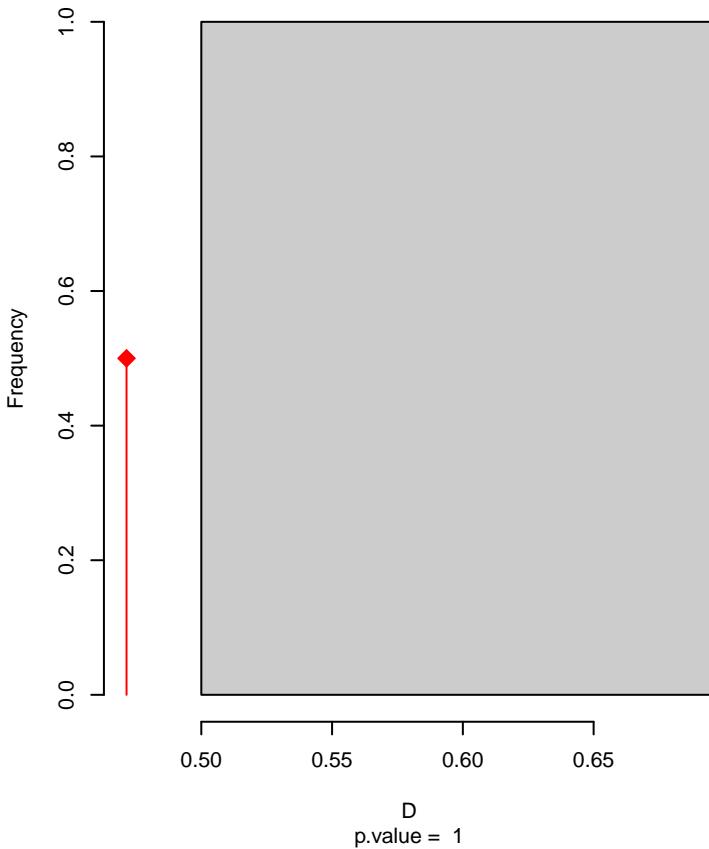
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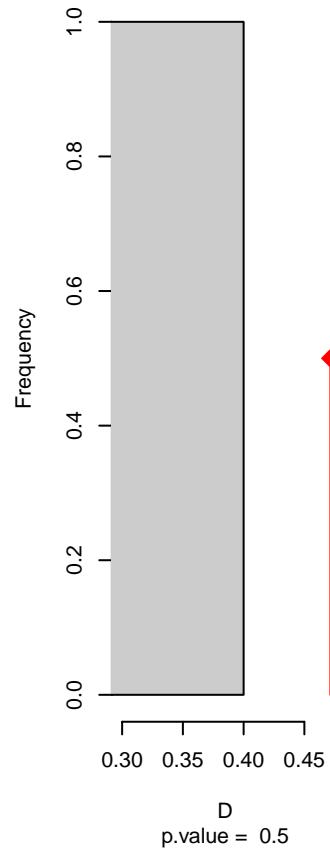
### Notiochelidon\_murina seasonal overlap



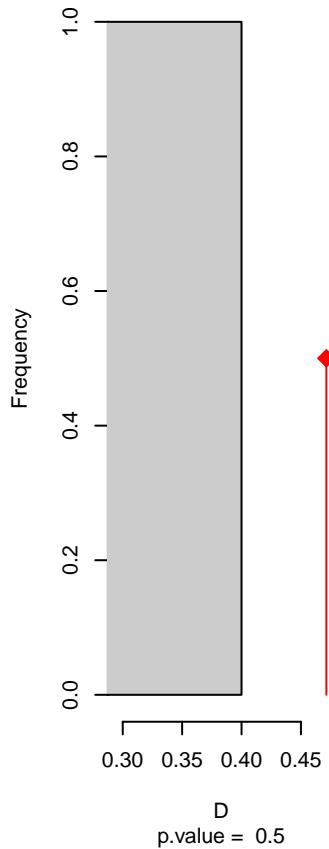
**Equivalency**



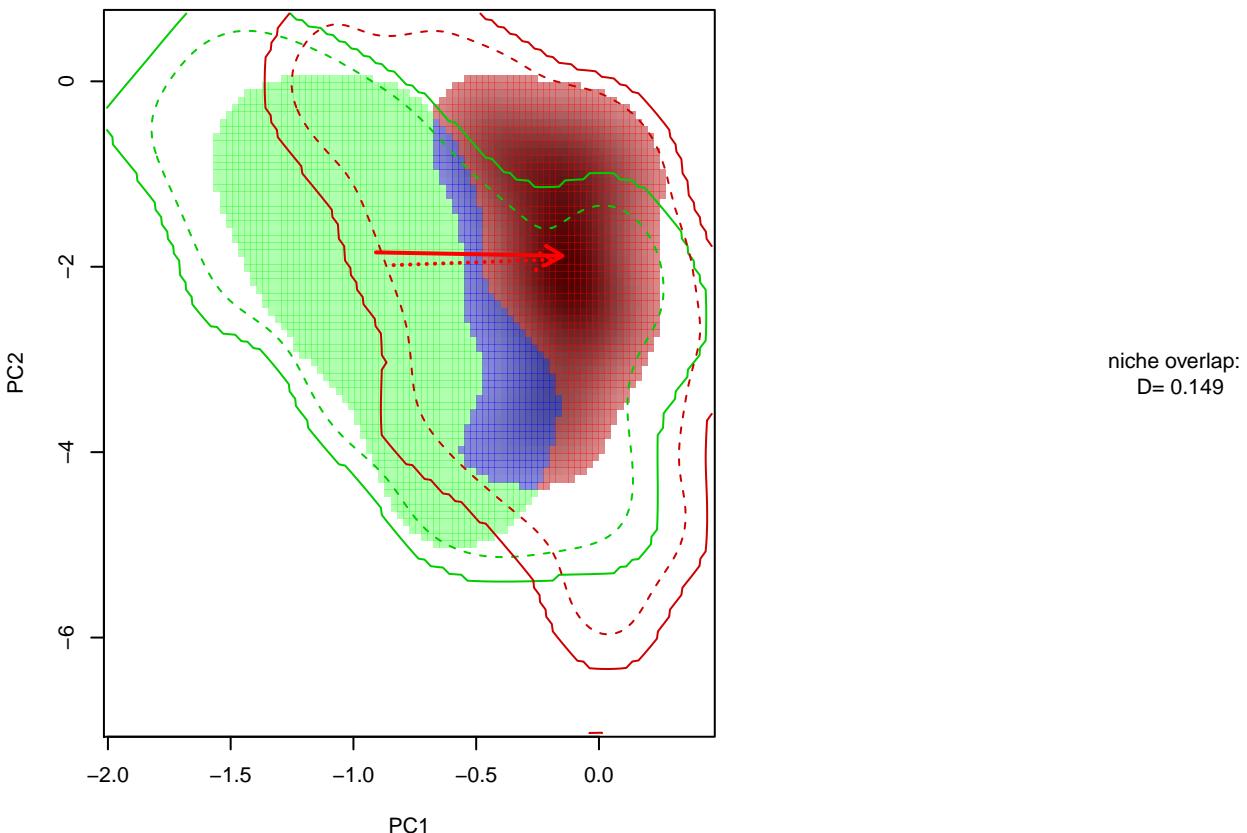
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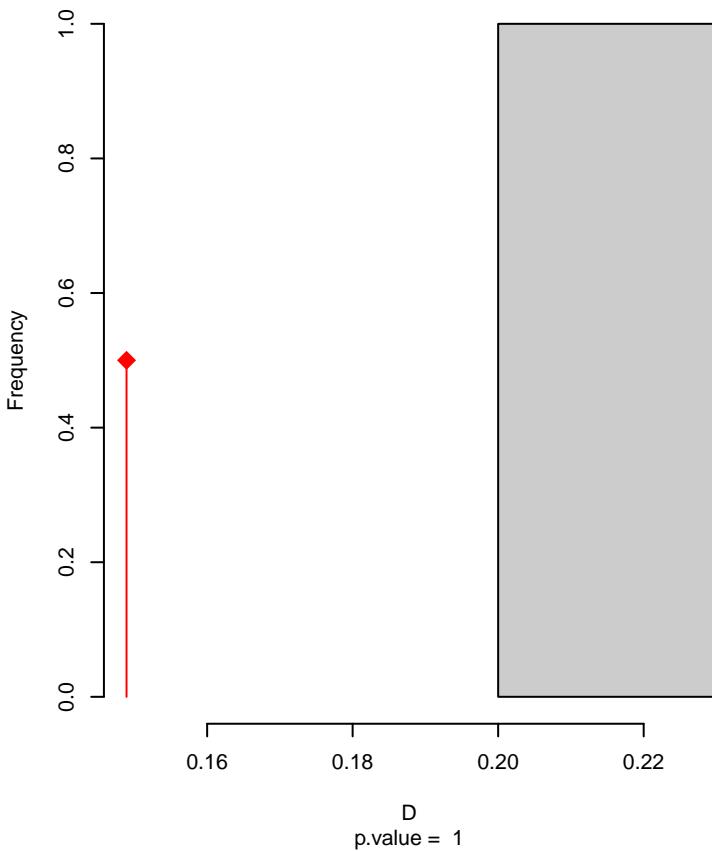
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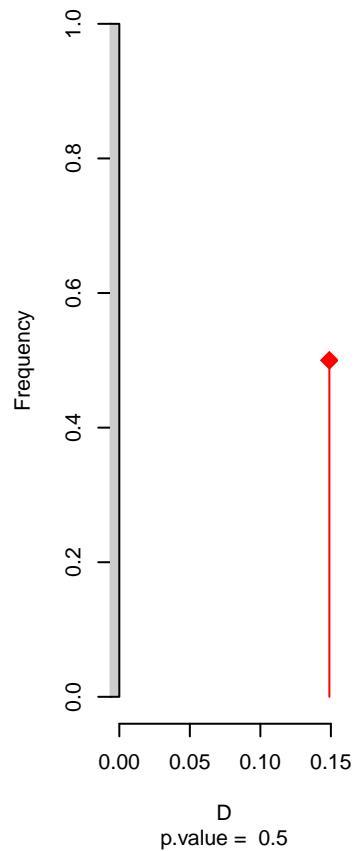
### Notiochelidon\_pileata seasonal overlap



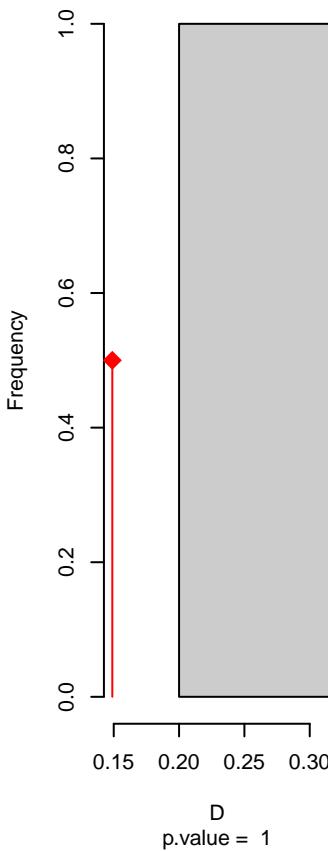
**Equivalency**



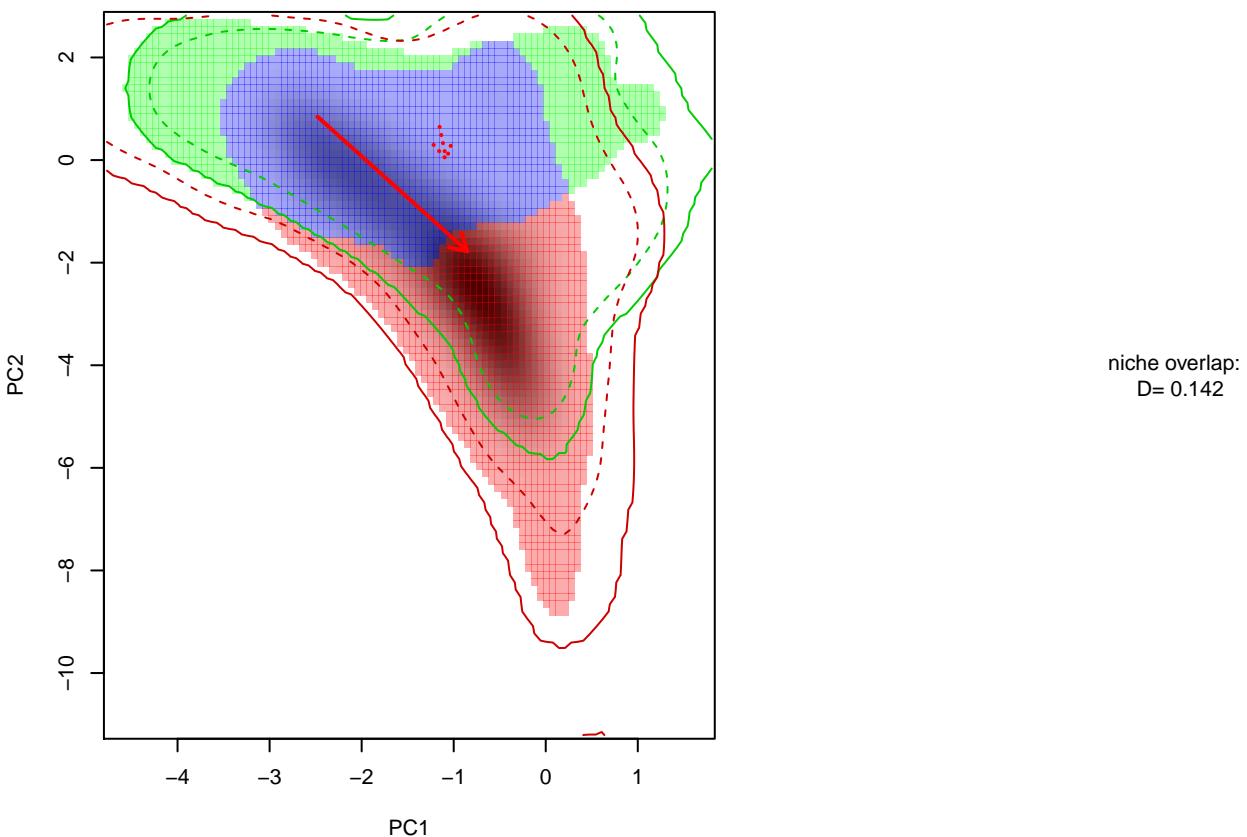
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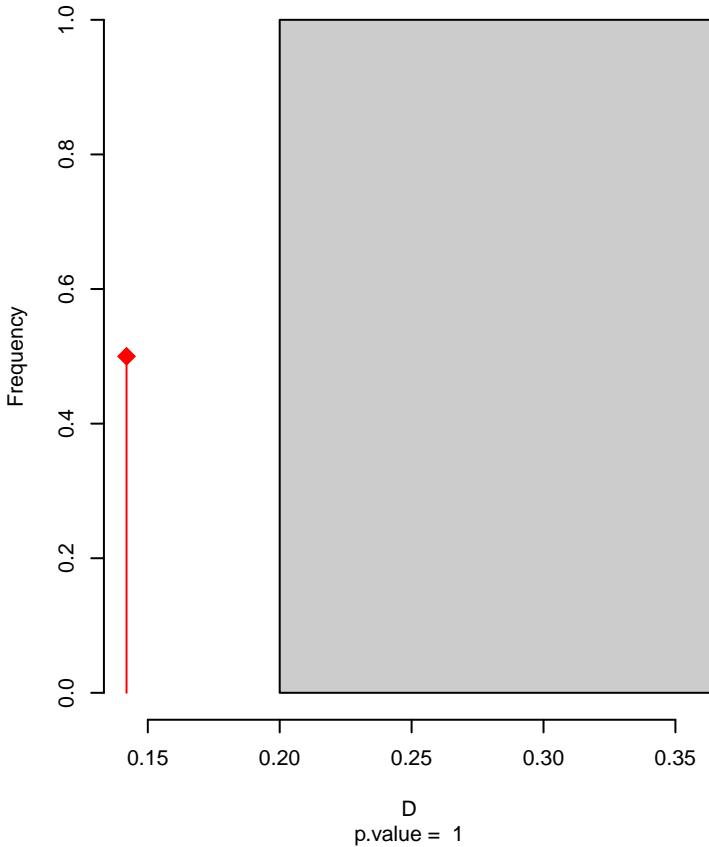
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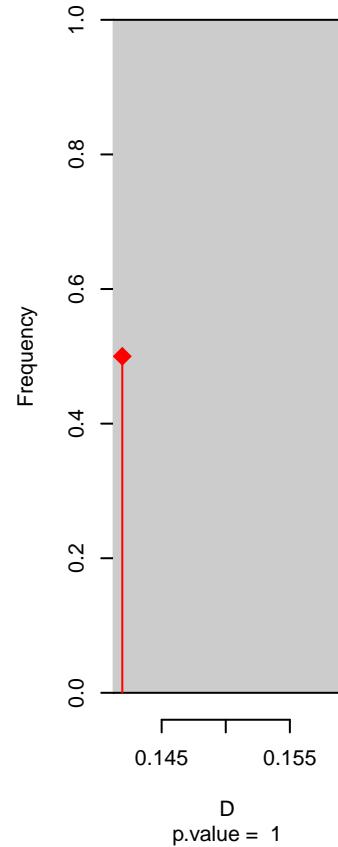
### Petrochelidon\_fluvicola seasonal overlap



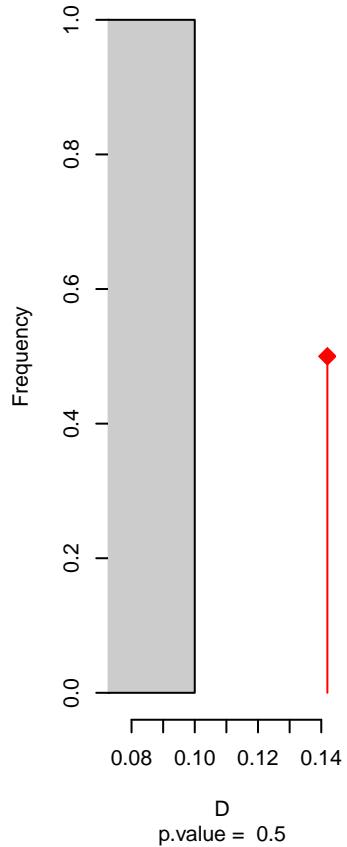
**Equivalency**



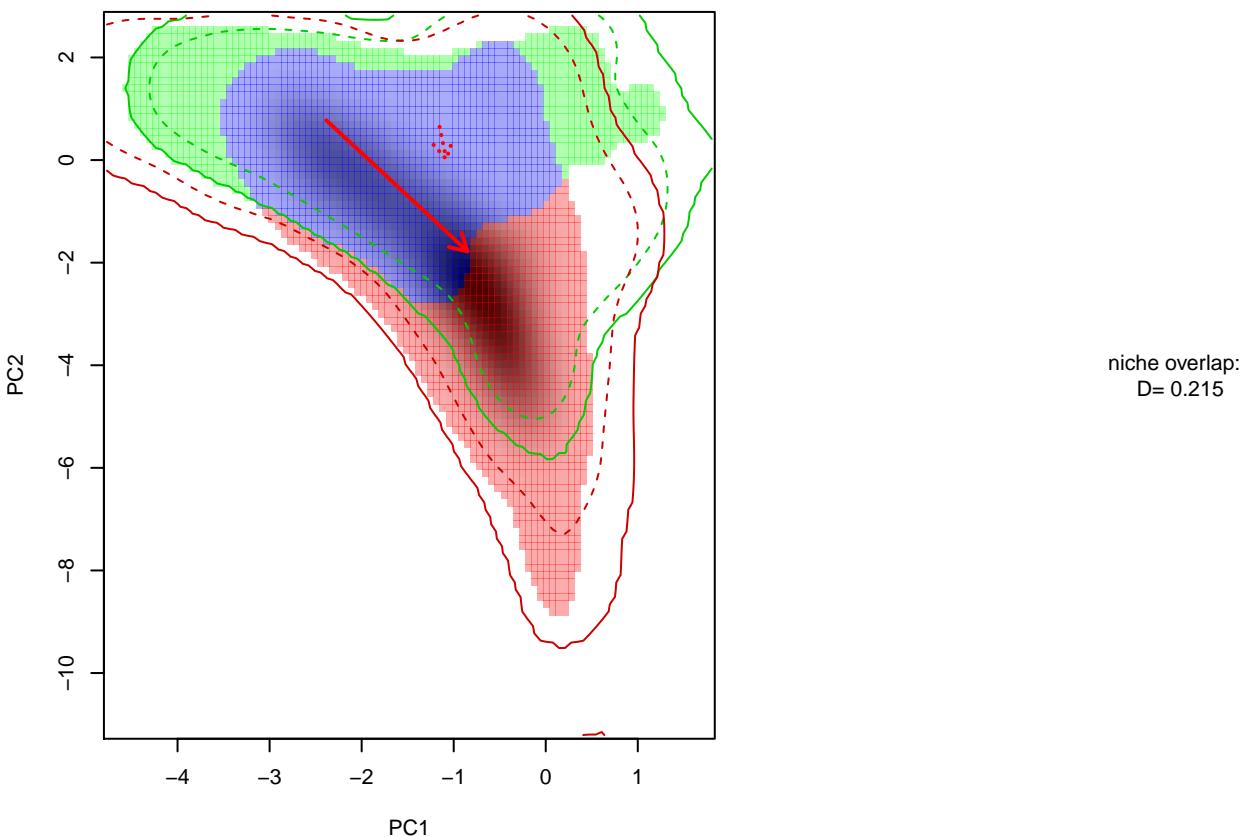
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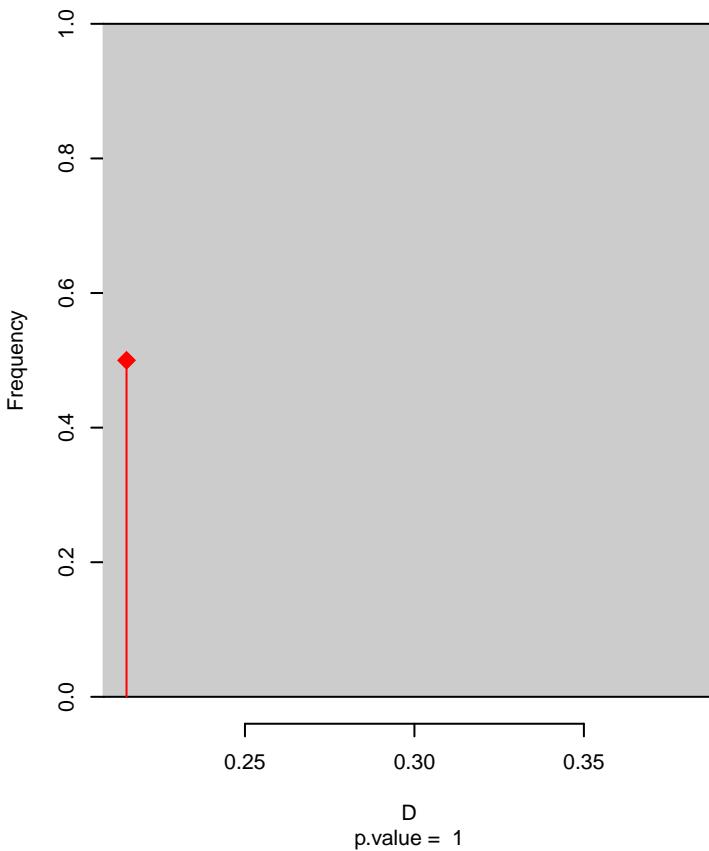
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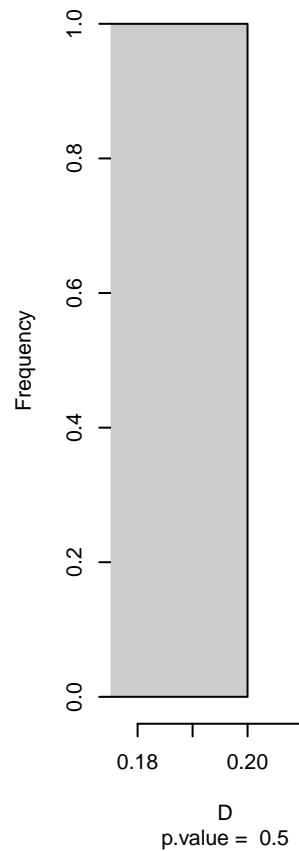
**Petrochelidon\_fluvicola seasonal overlap-hypo.br**



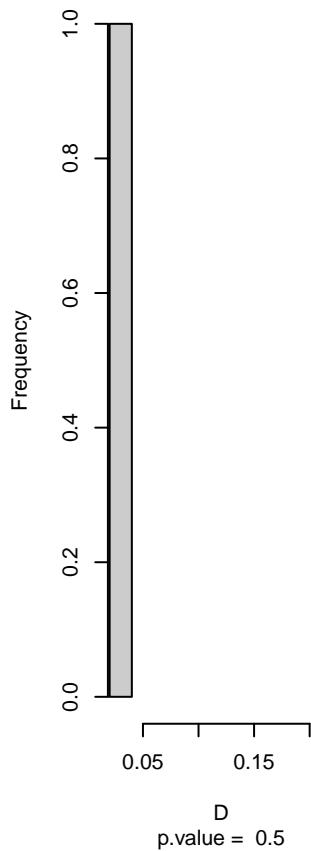
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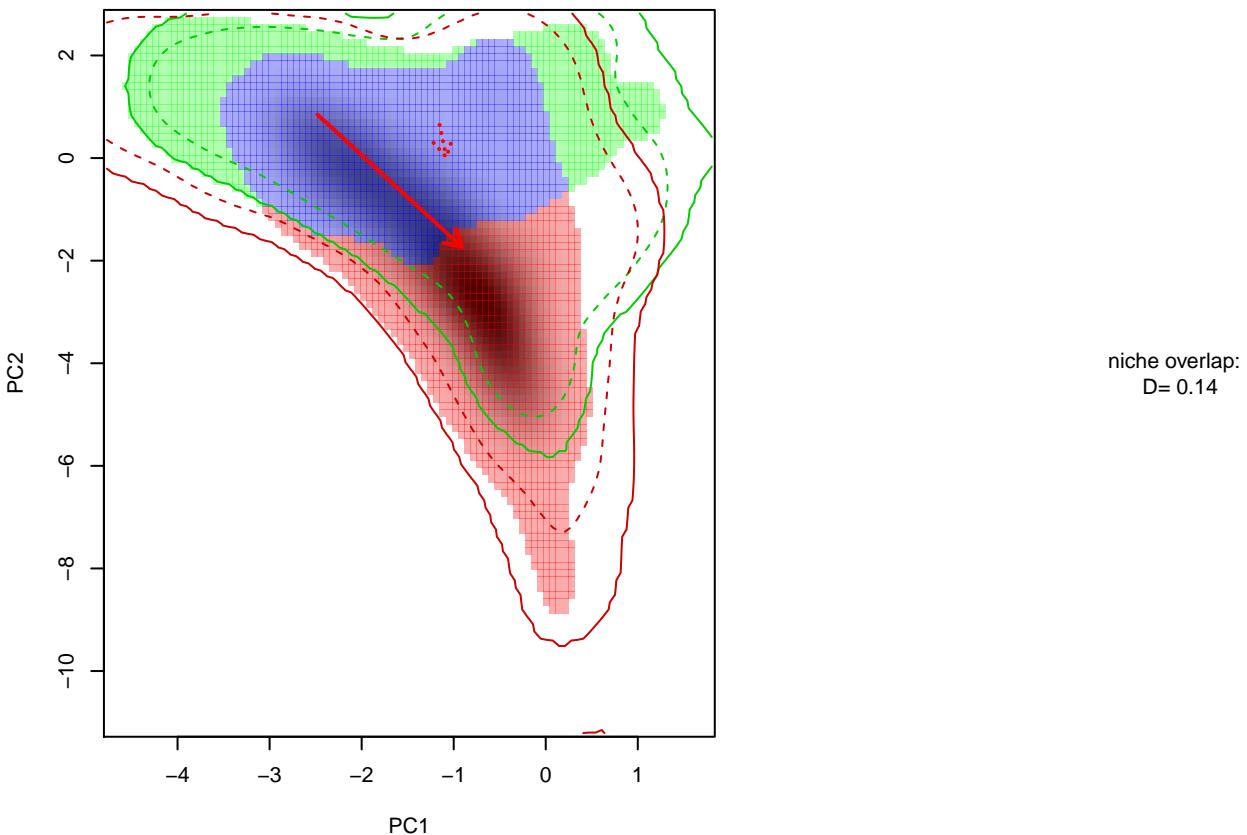
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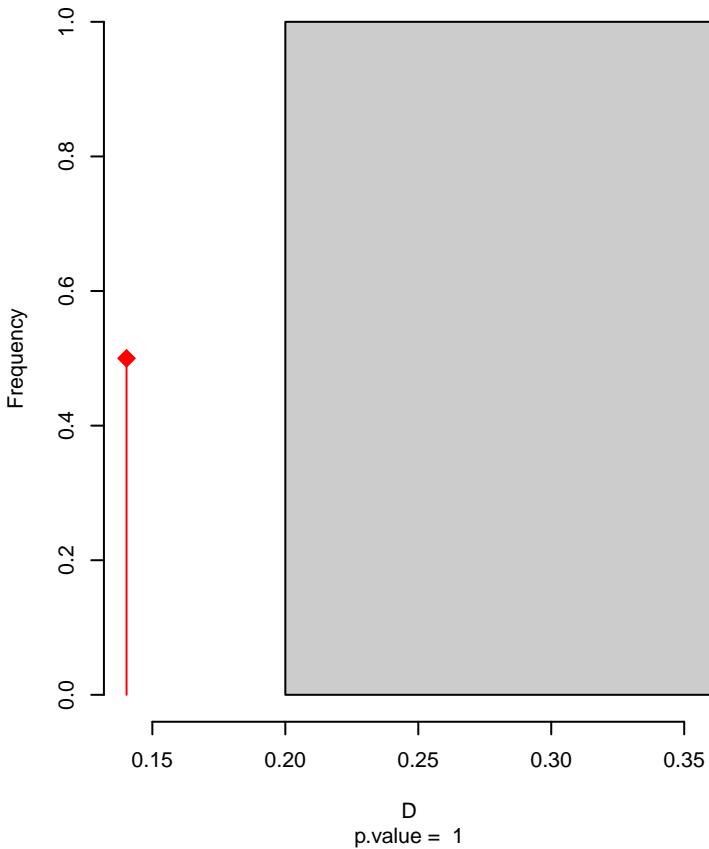
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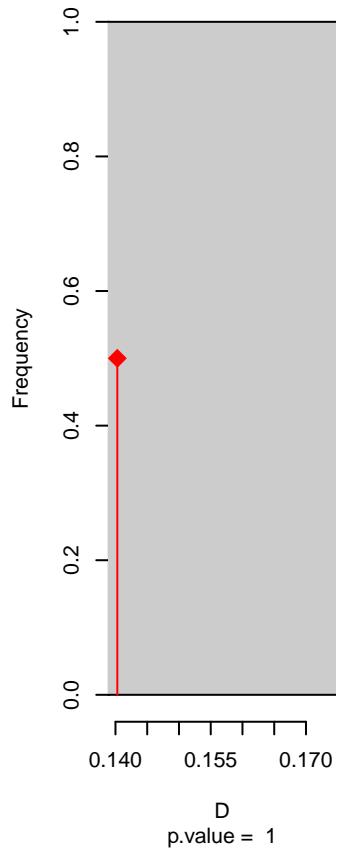
# *Petrochelidon\_fluvicola* seasonal overlap-hypo wi



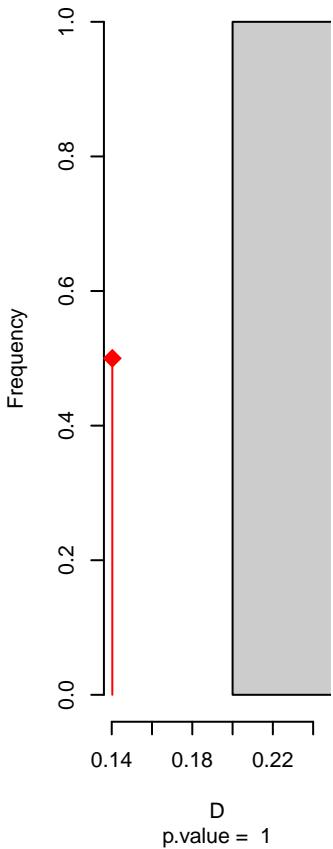
Equivalency



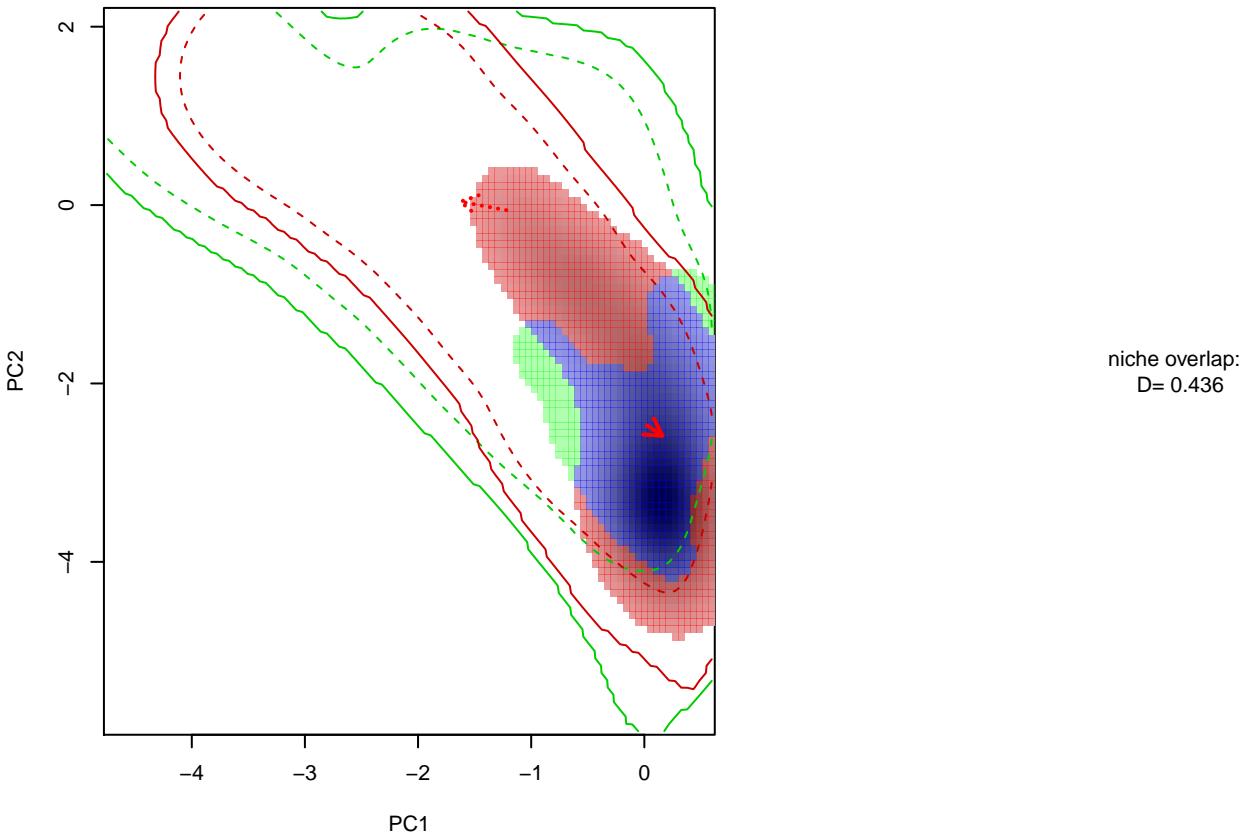
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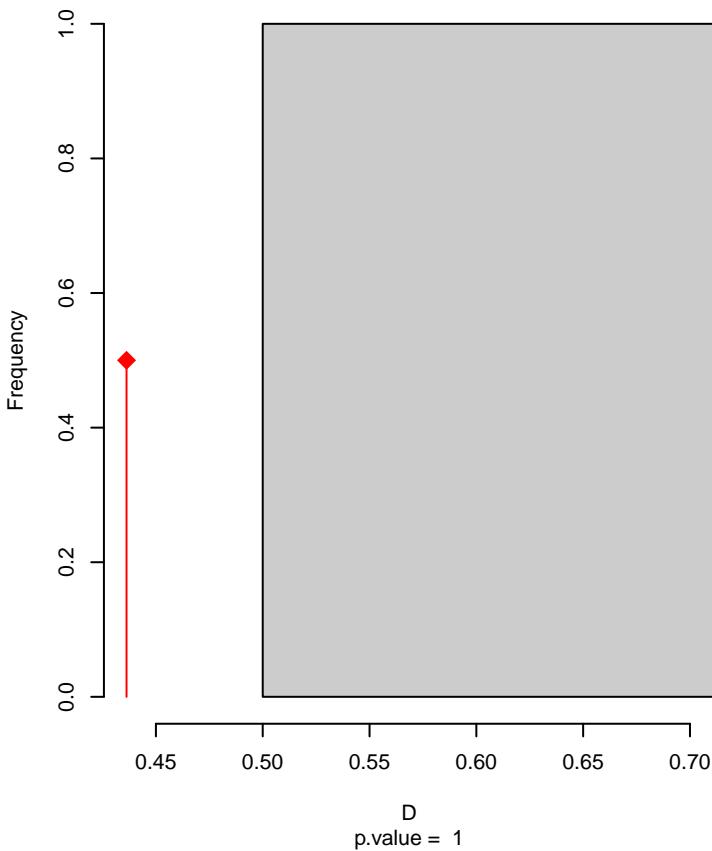
Similarity 1→2



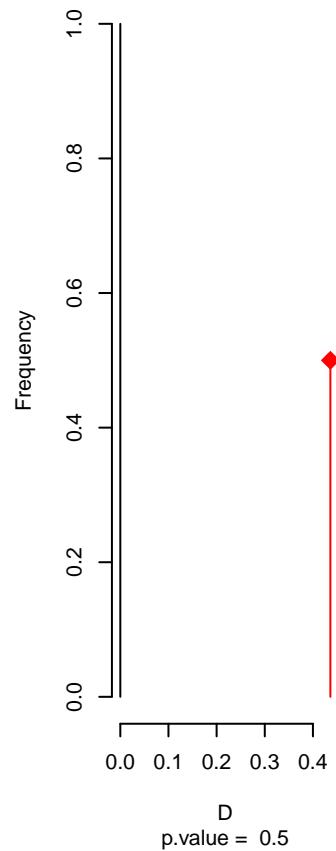
### Petrochelidon\_fuliginosa seasonal overlap



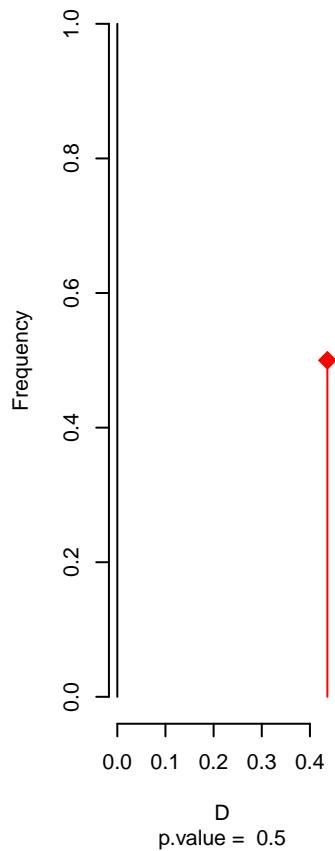
**Equivalency**



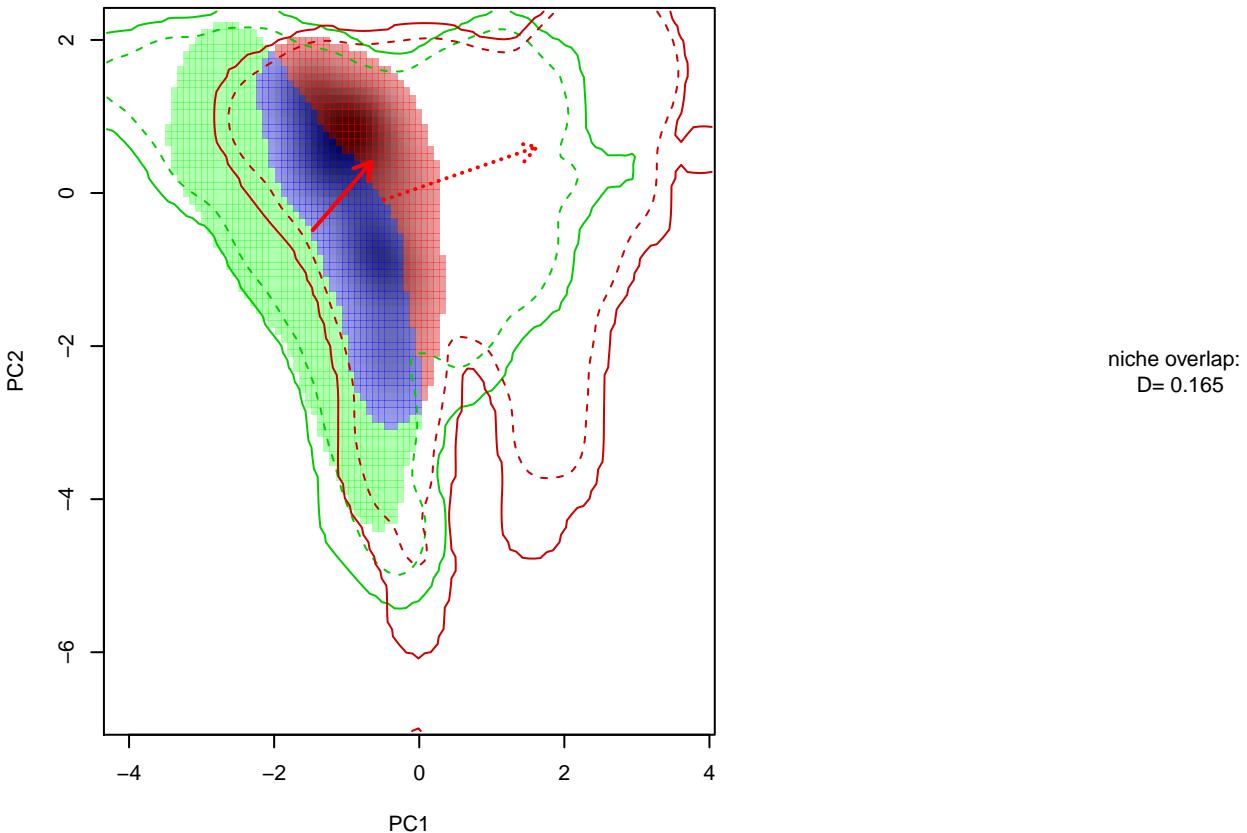
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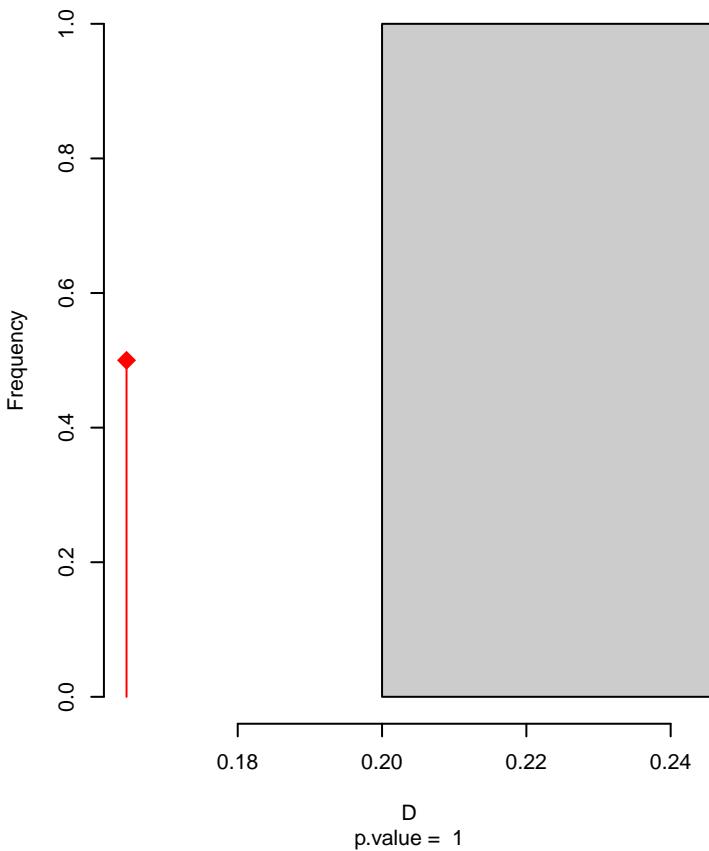
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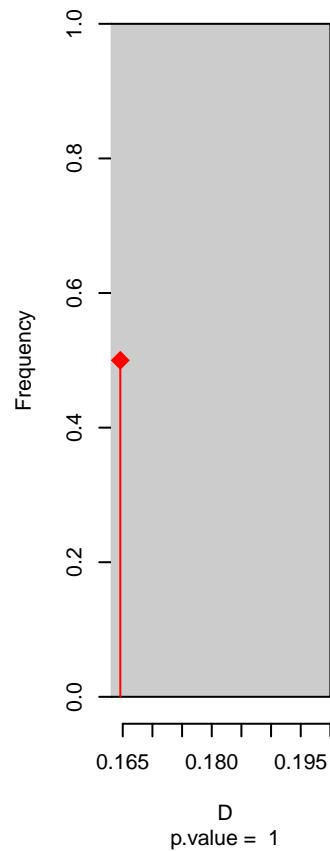
### Petrochelidon\_fulva seasonal overlap



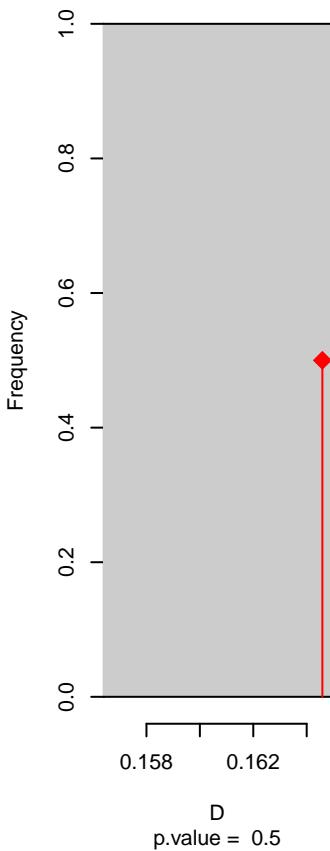
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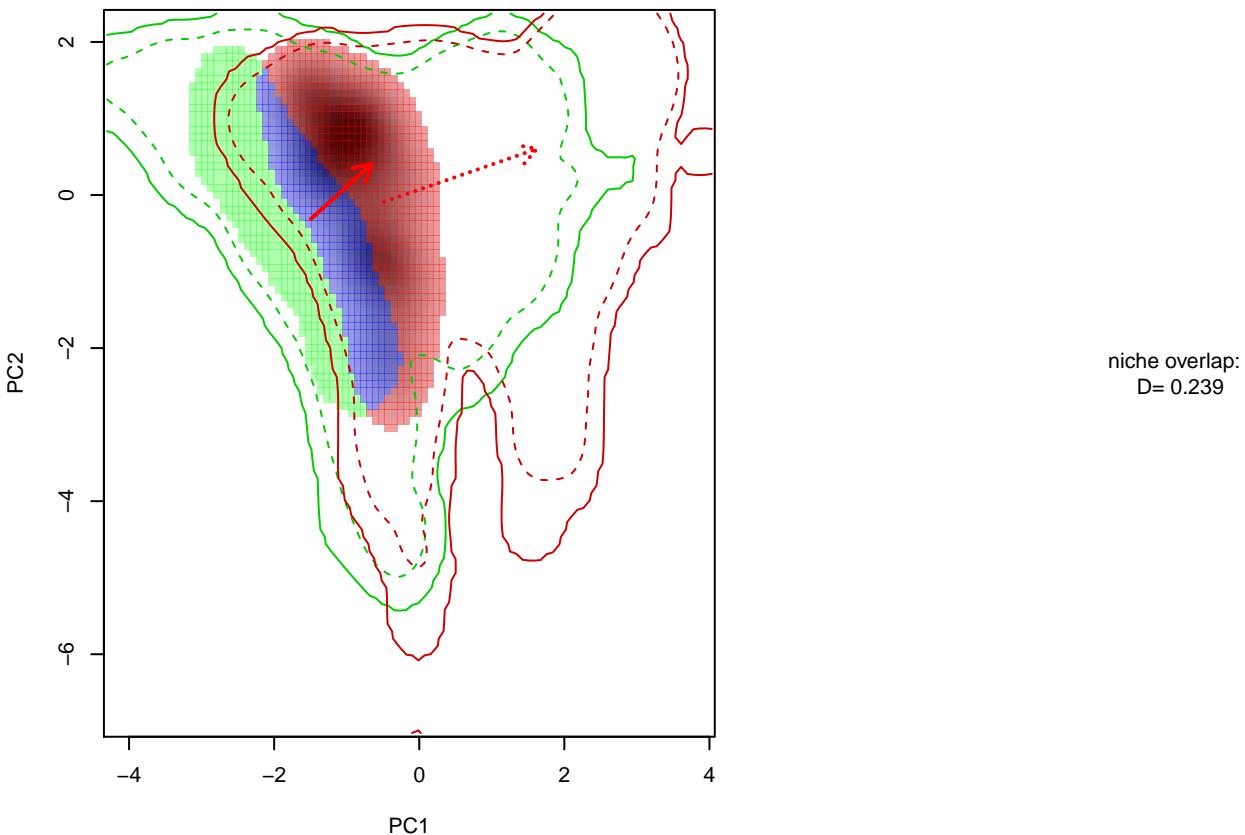
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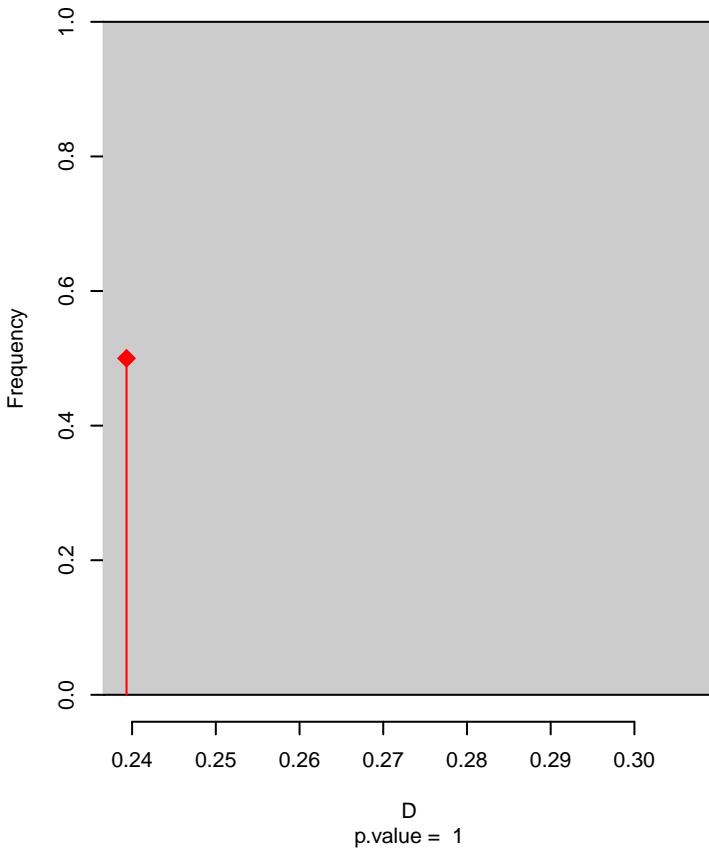
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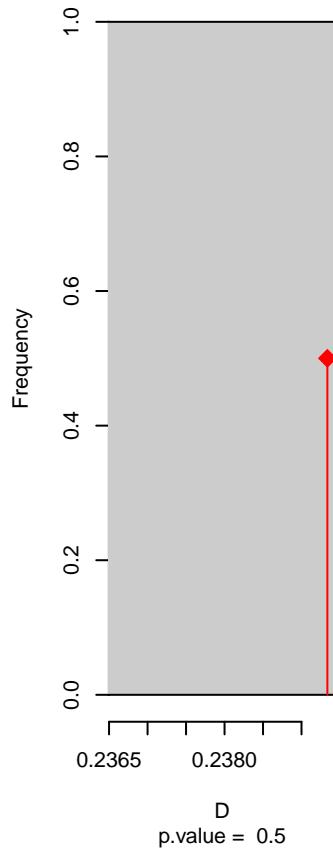
# Petrochelidon\_fulva seasonal overlap-hypo.br



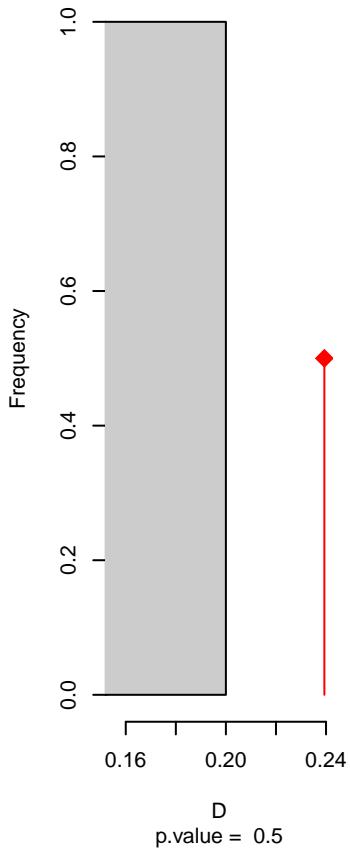
**Equivalency**



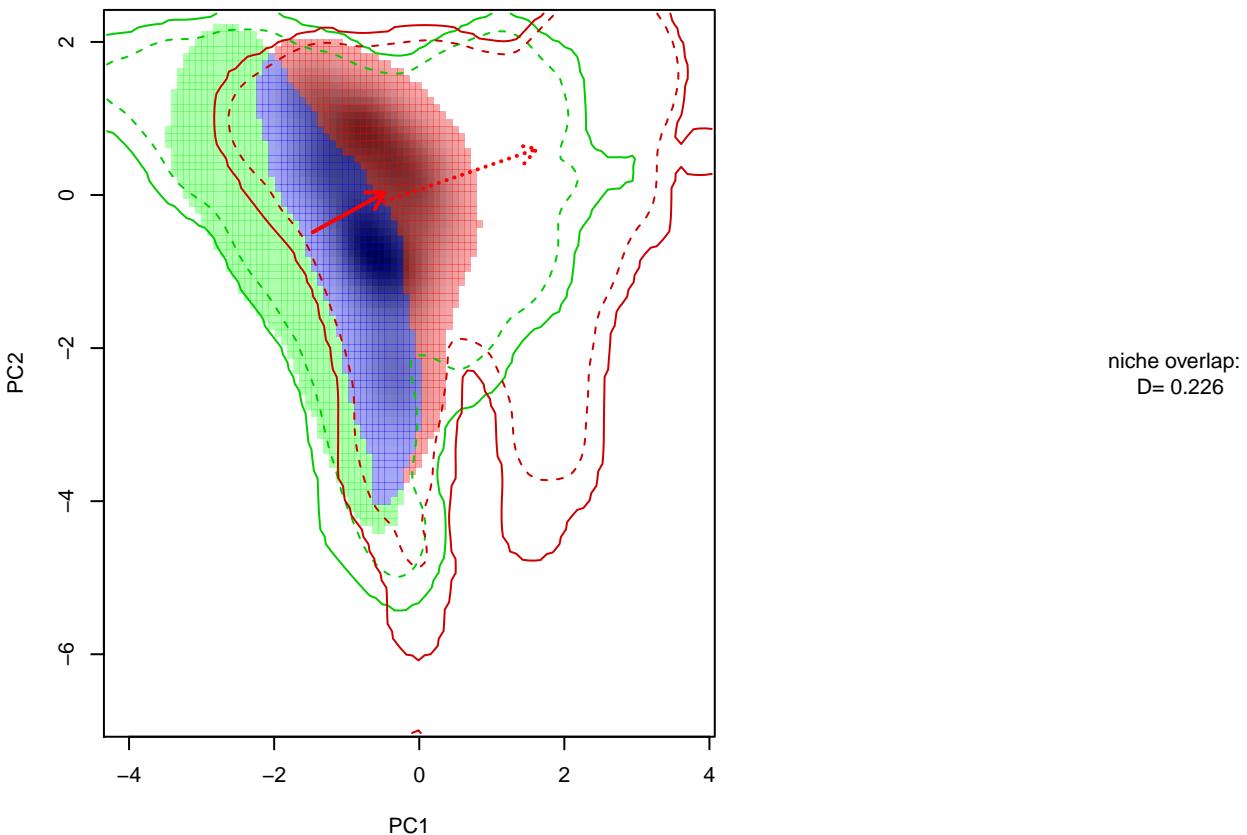
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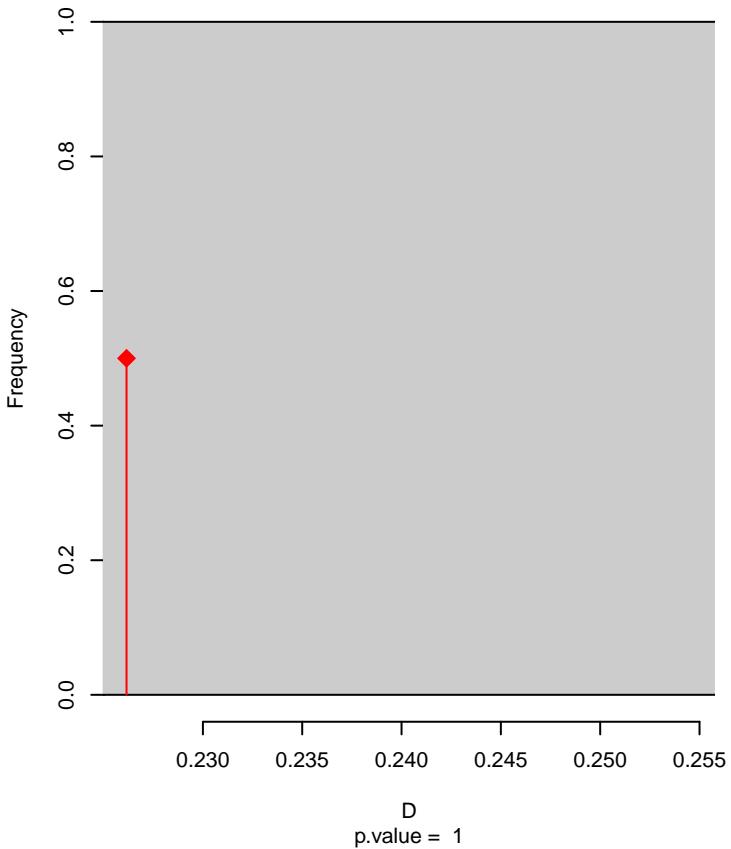
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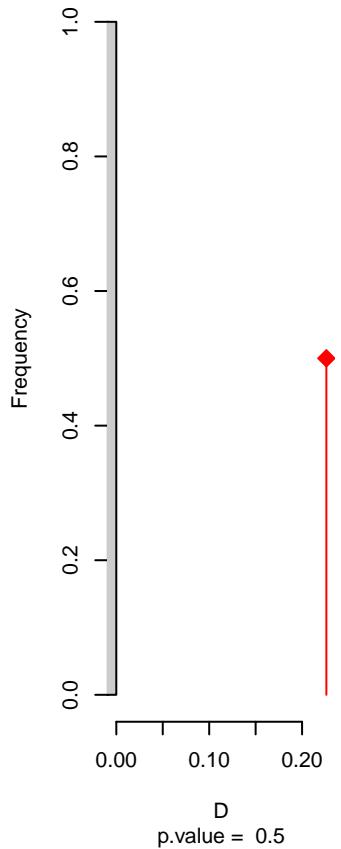
# Petrochelidon\_fulva seasonal overlap-hypo wi



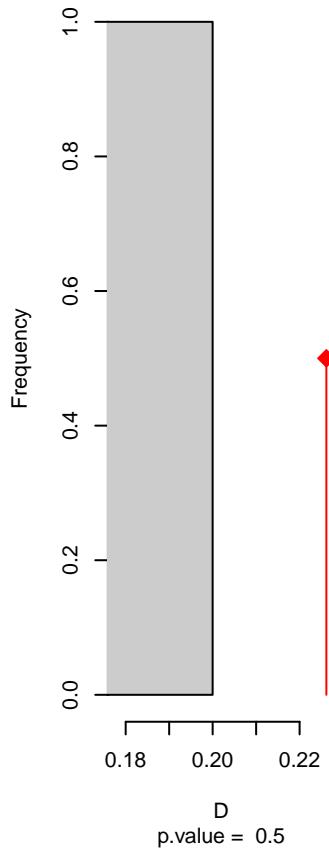
**Equivalency**



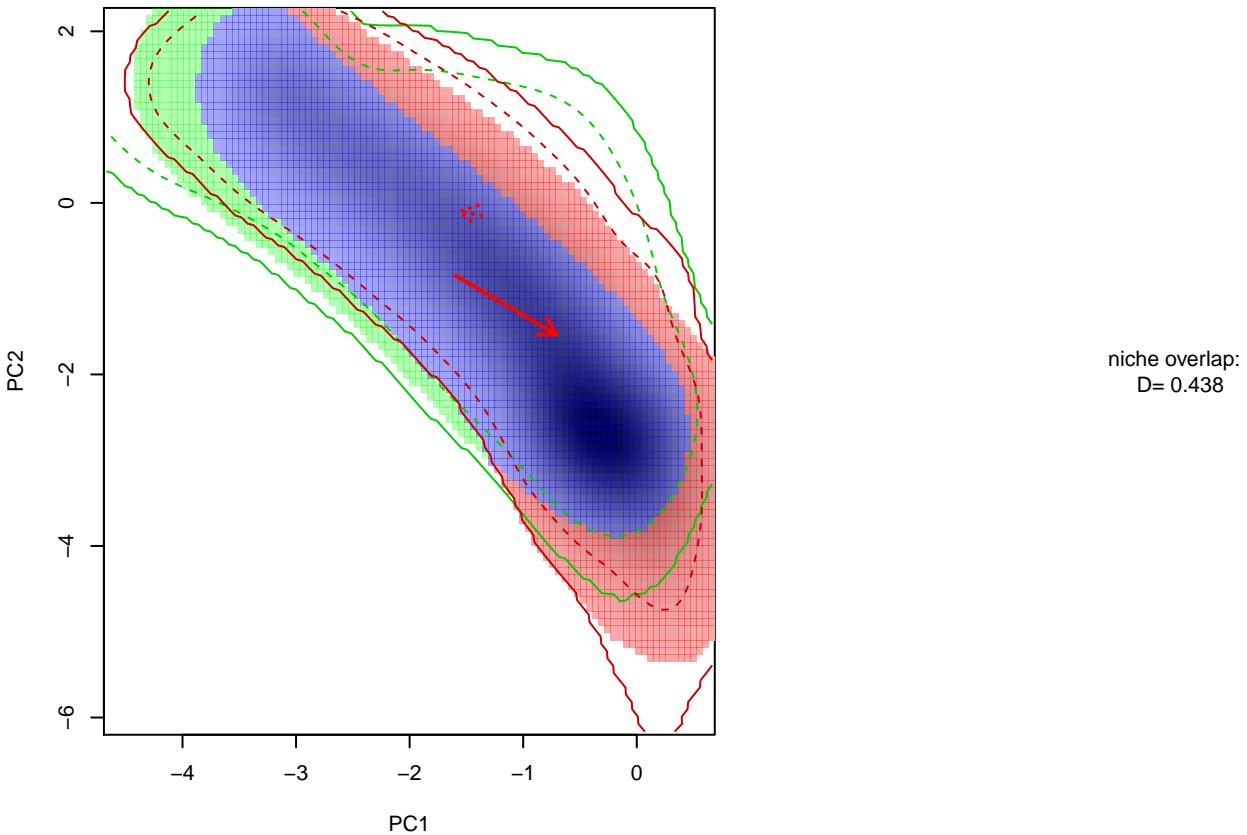
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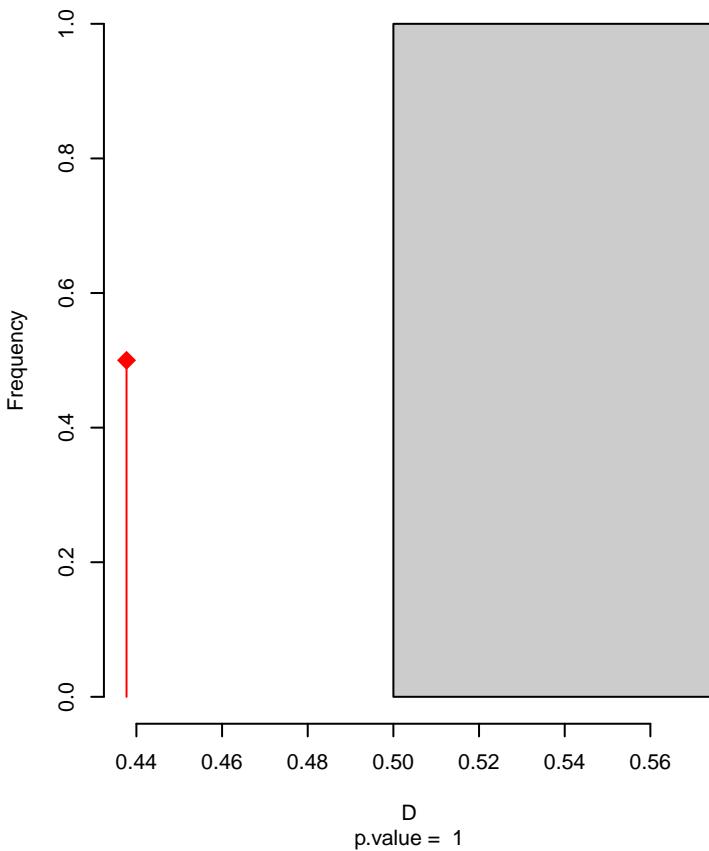
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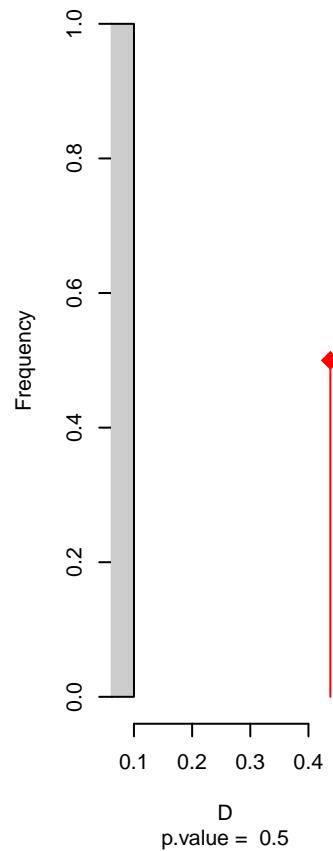
### Petrochelidon\_preussi seasonal overlap



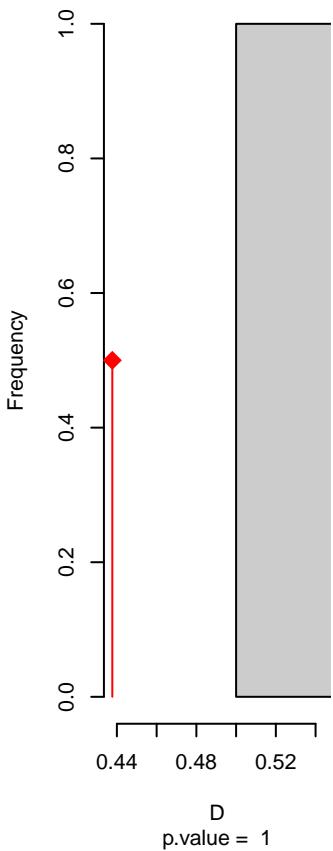
**Equivalency**



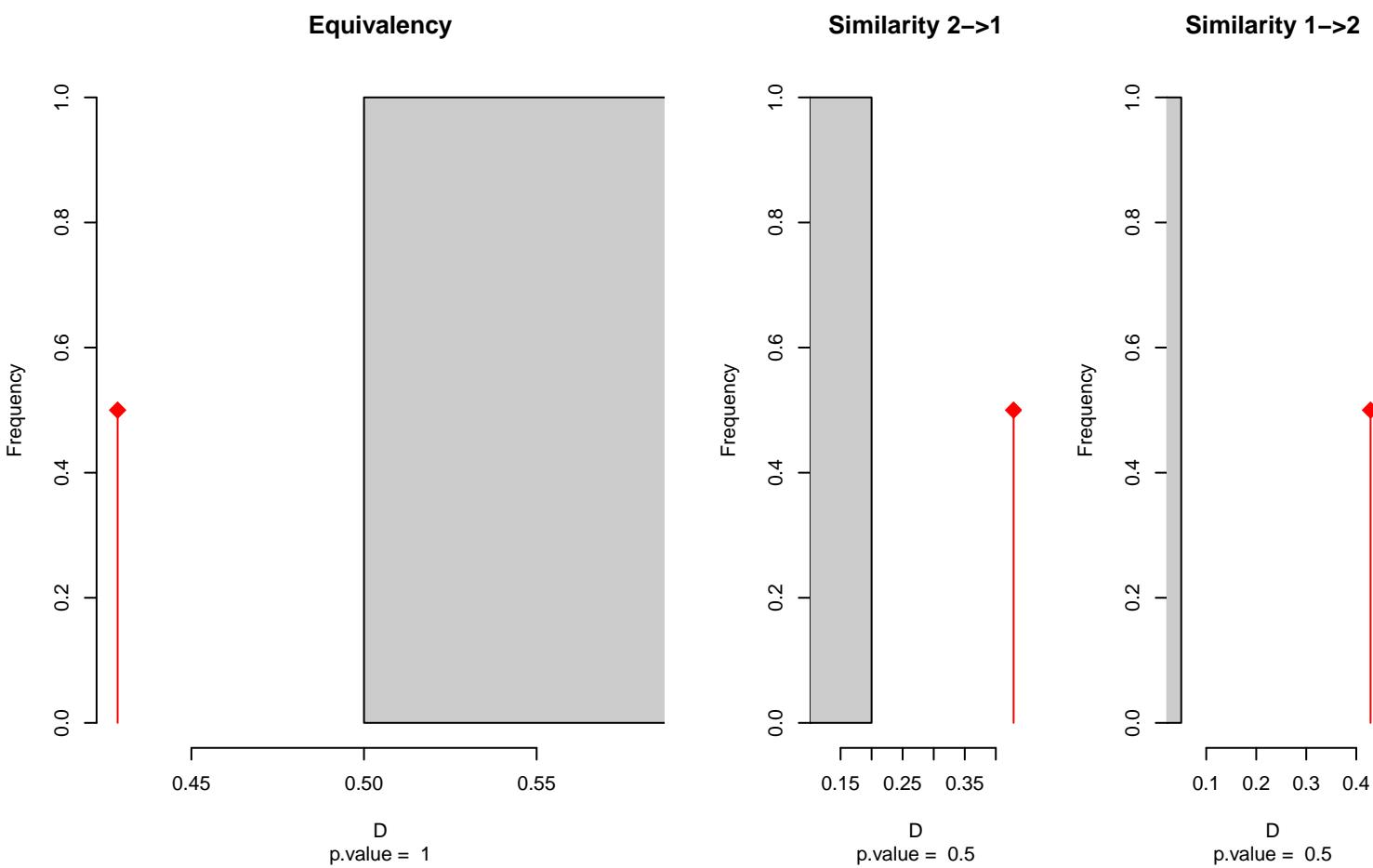
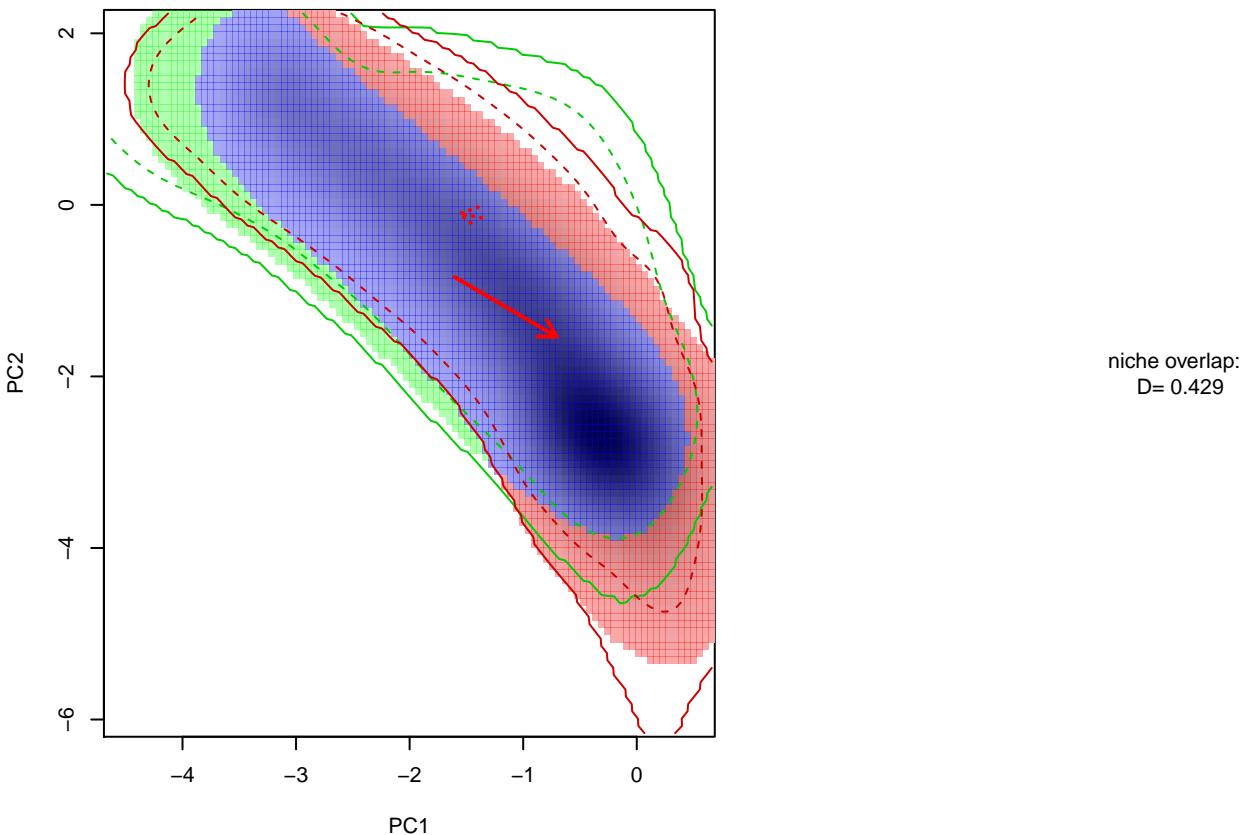
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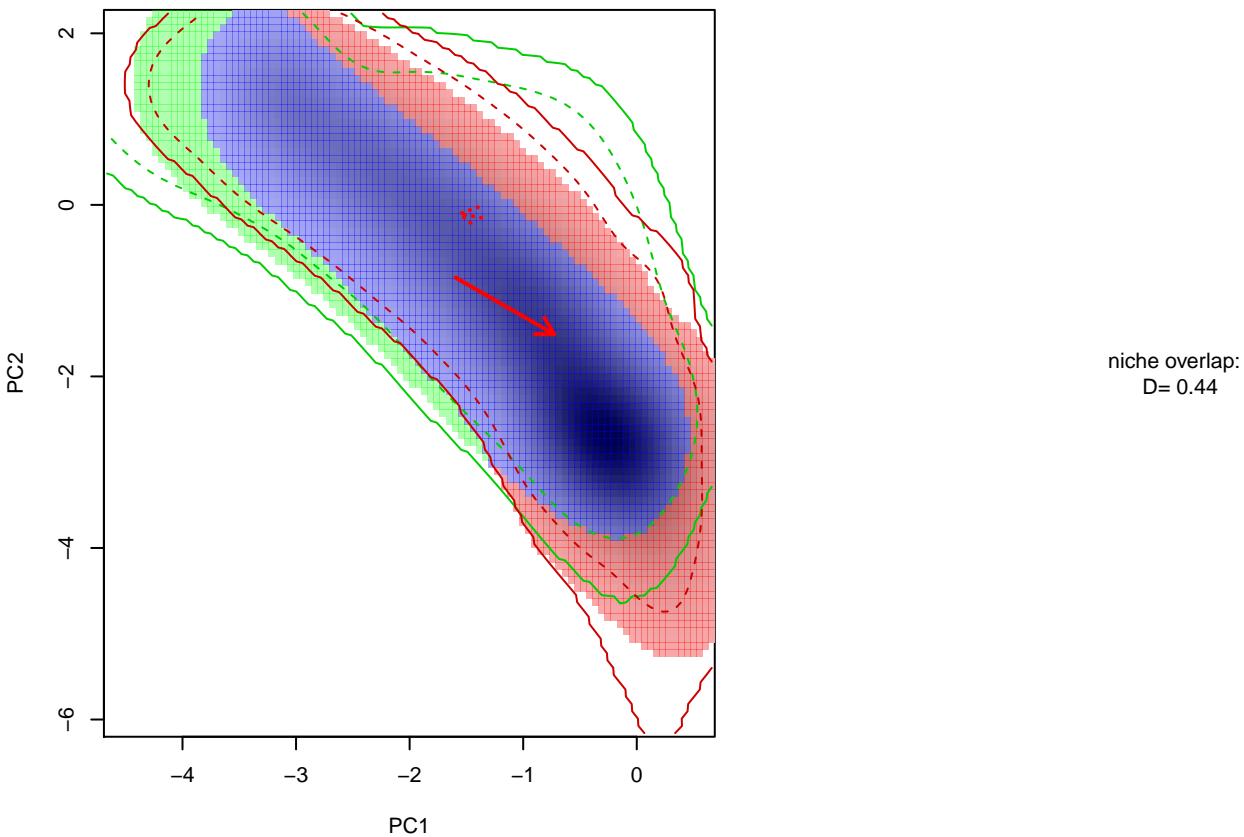
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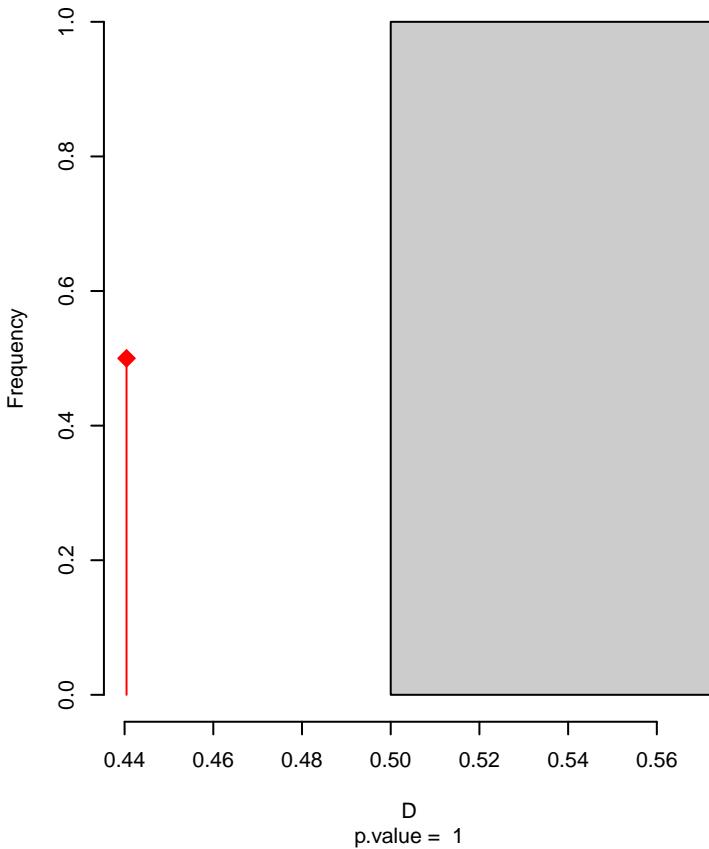
**Petrochelidon\_preussi seasonal overlap-hypo.br**



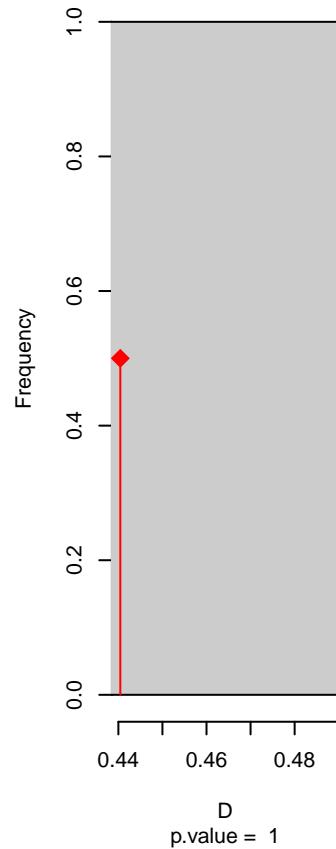
# Petrochelidon\_preussi seasonal overlap-hypo wi



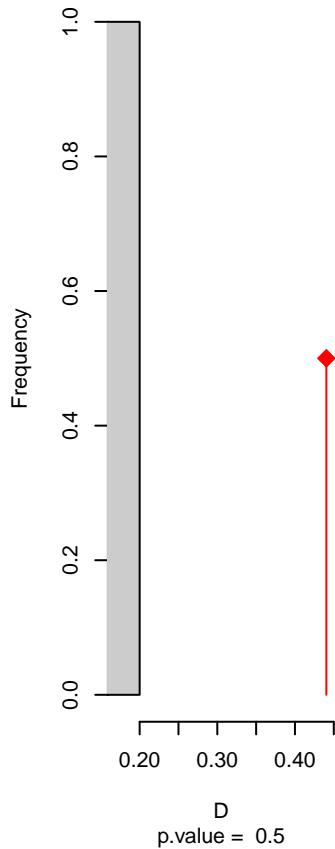
**Equivalency**



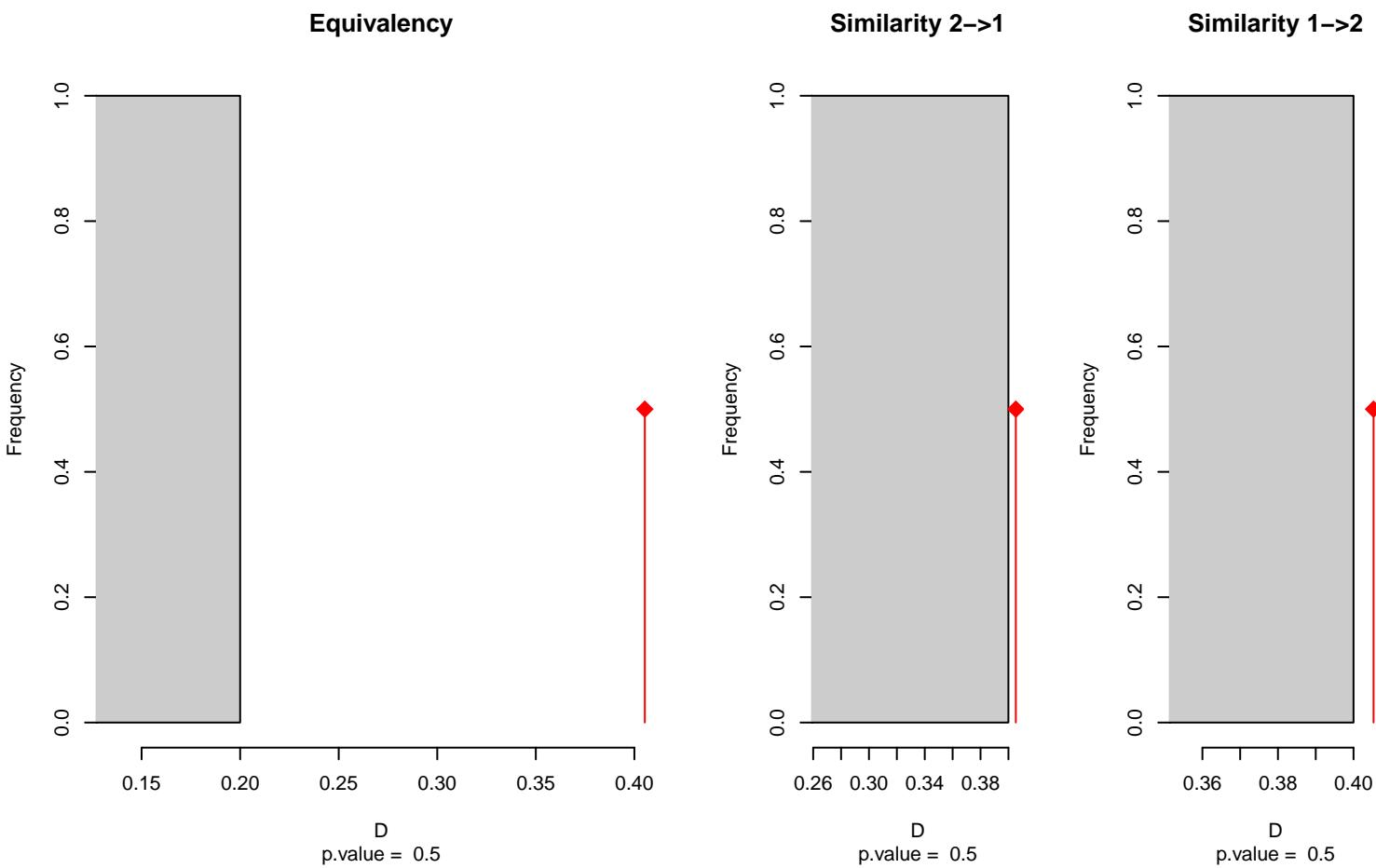
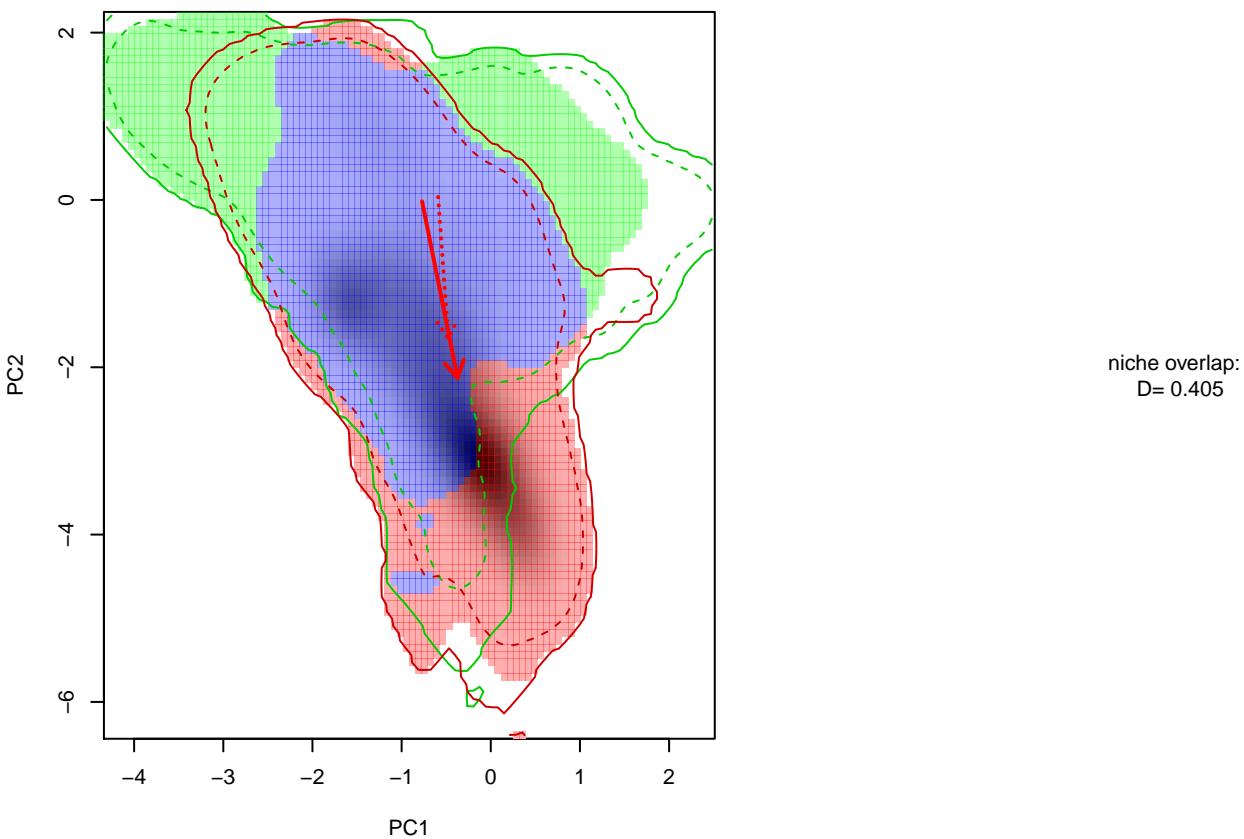
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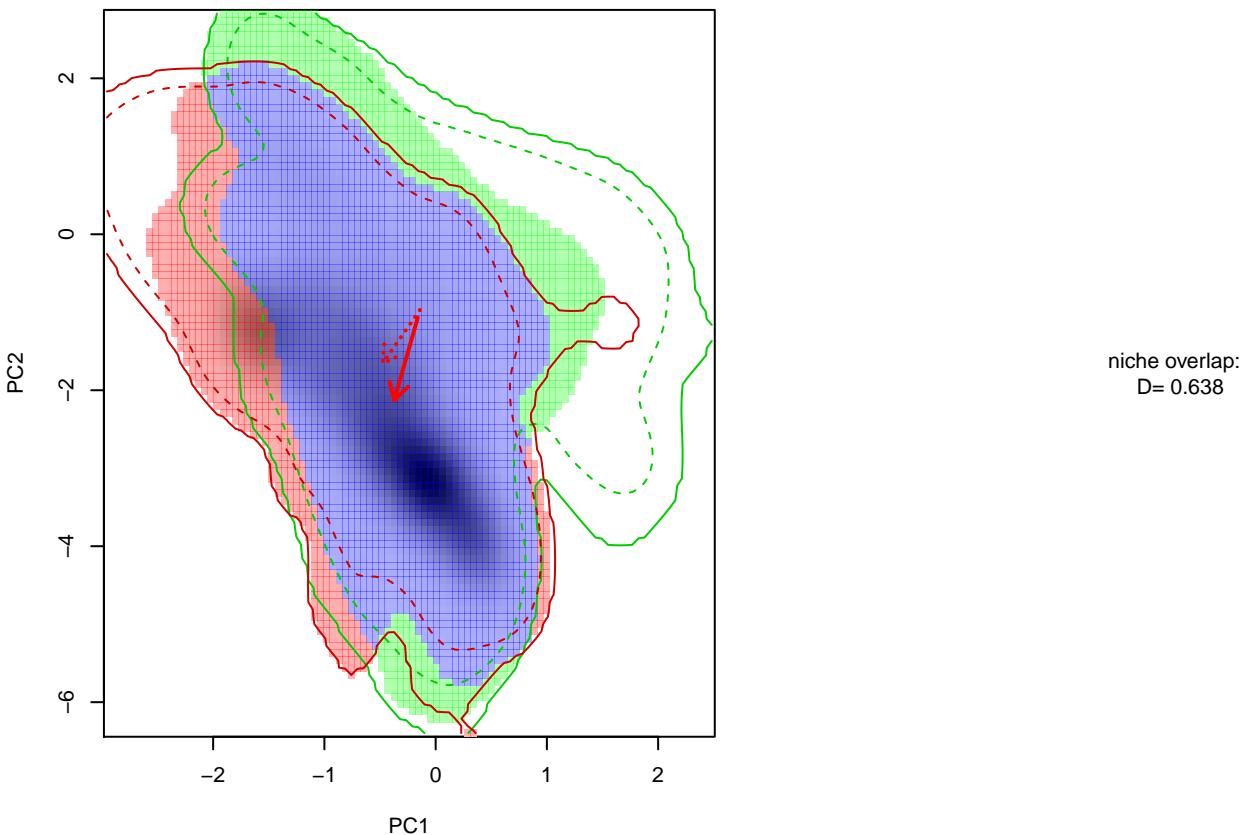
**Similarity 1→2**



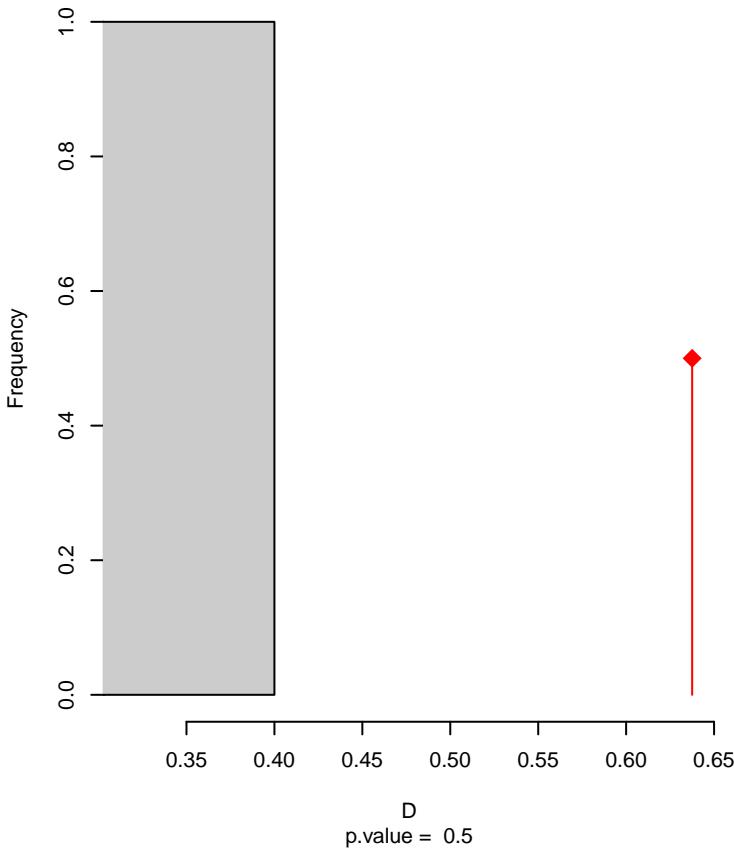
### Petrochelidon\_pyrrhonota seasonal overlap



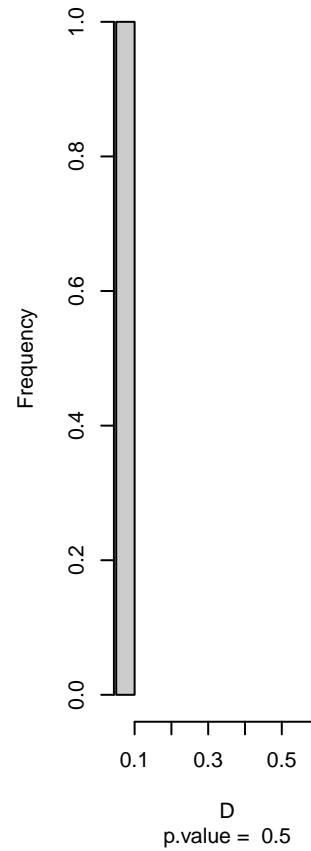
# Petrochelidon\_pyrrhonota seasonal overlap-hypo.br



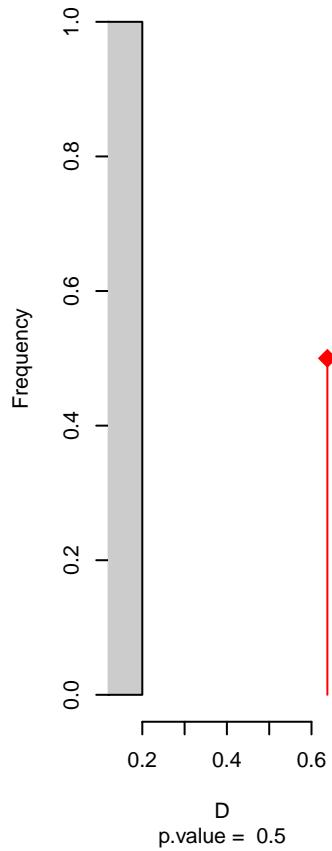
**Equivalency**



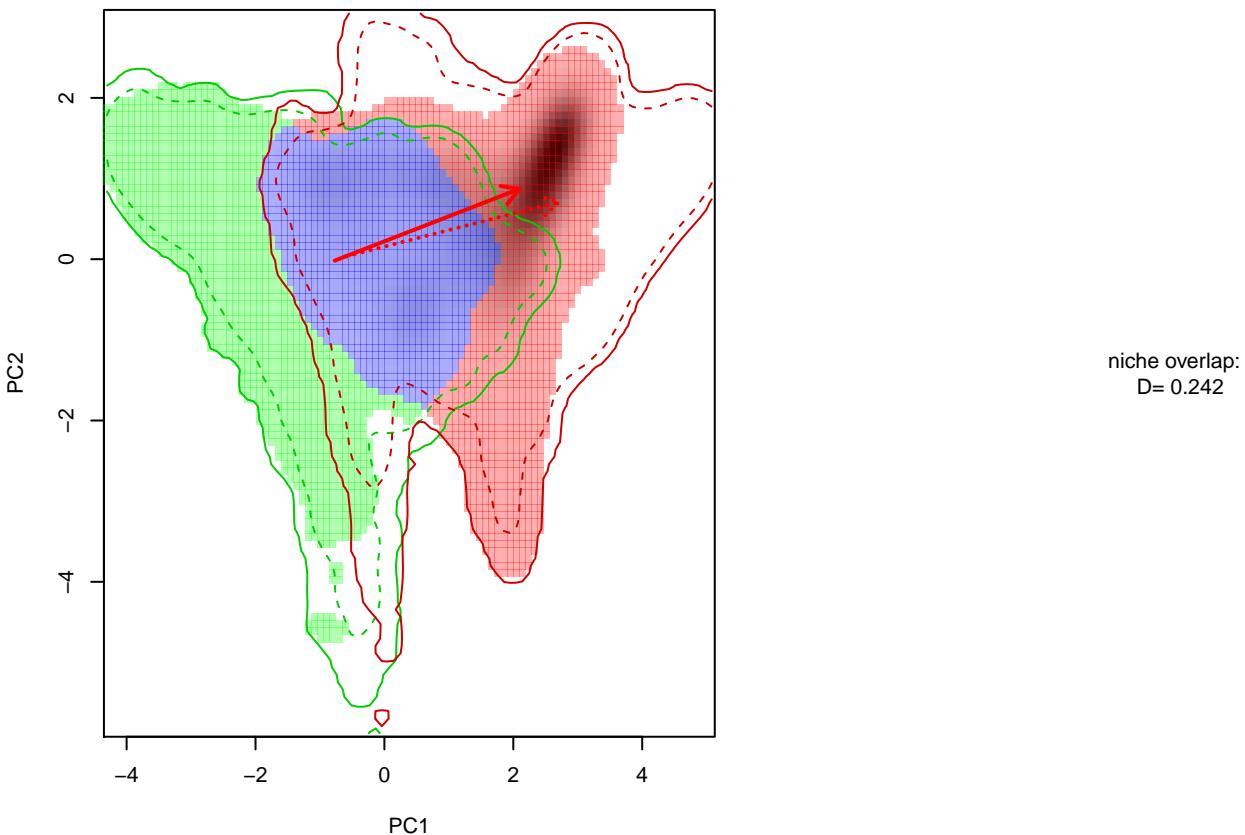
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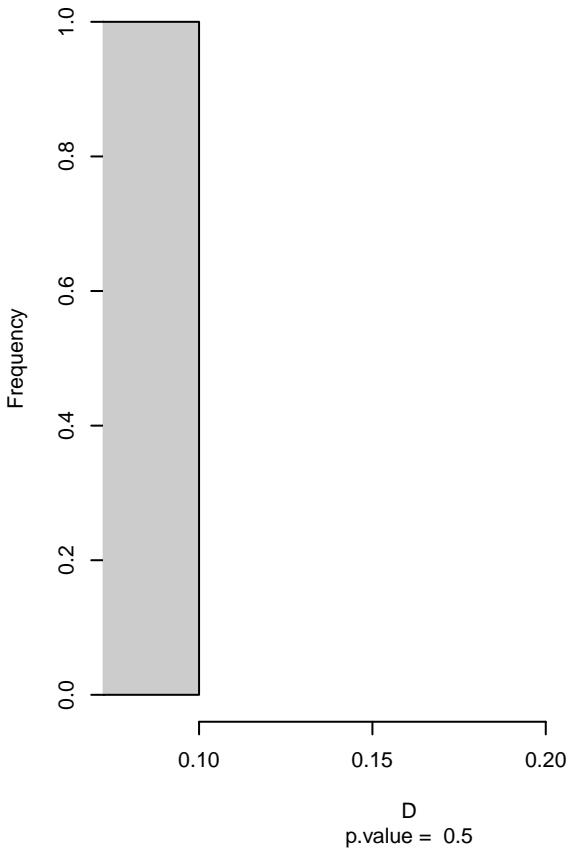
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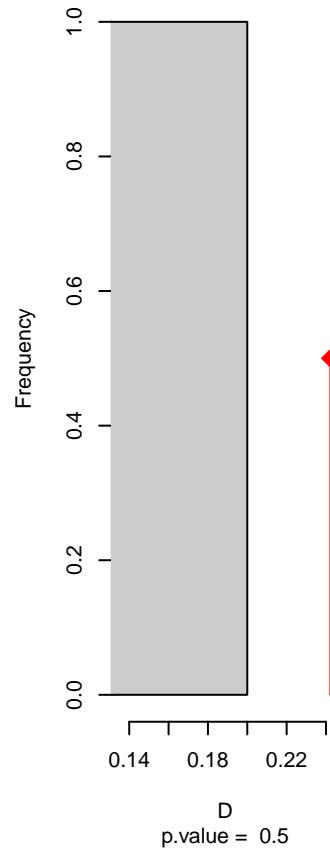
# Petrochelidon\_pyrrhonota seasonal overlap-hypo wi



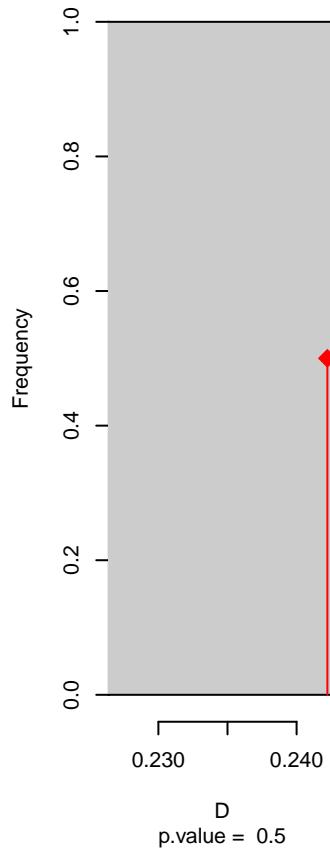
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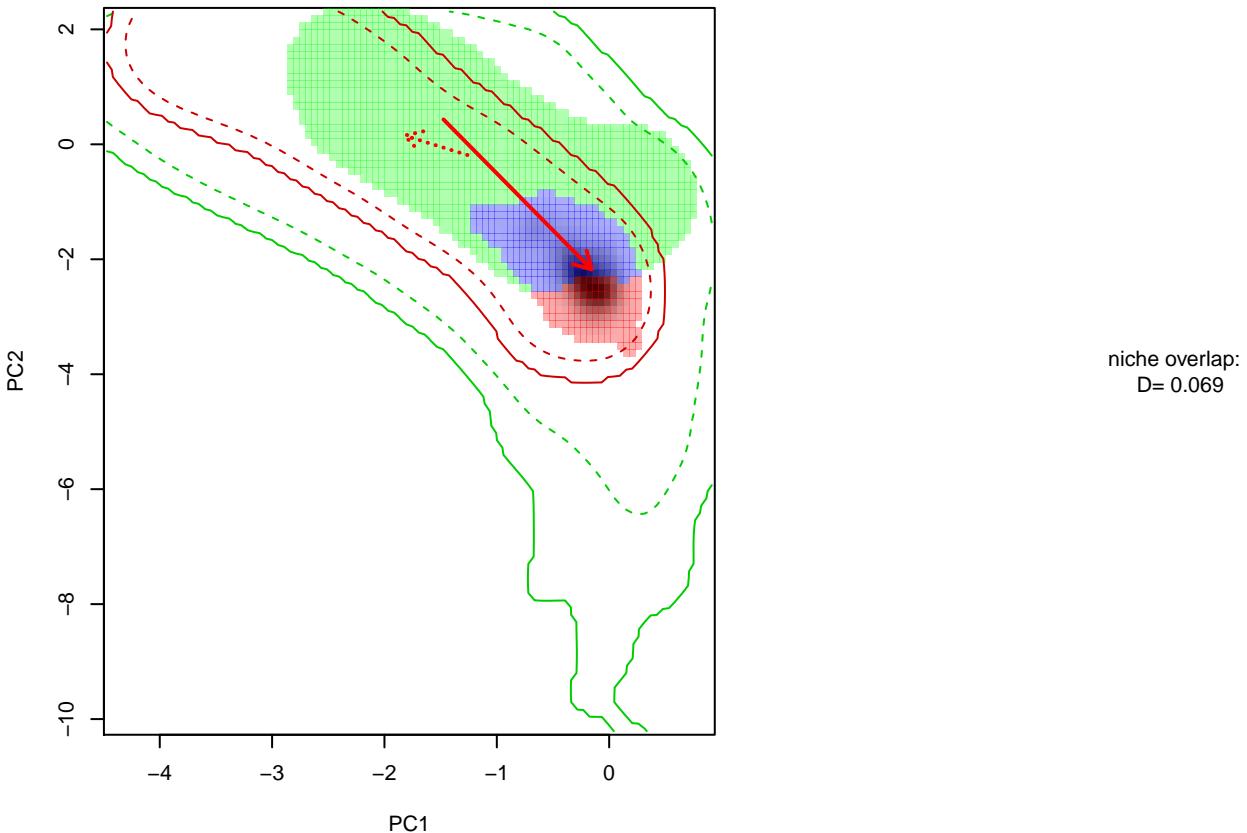
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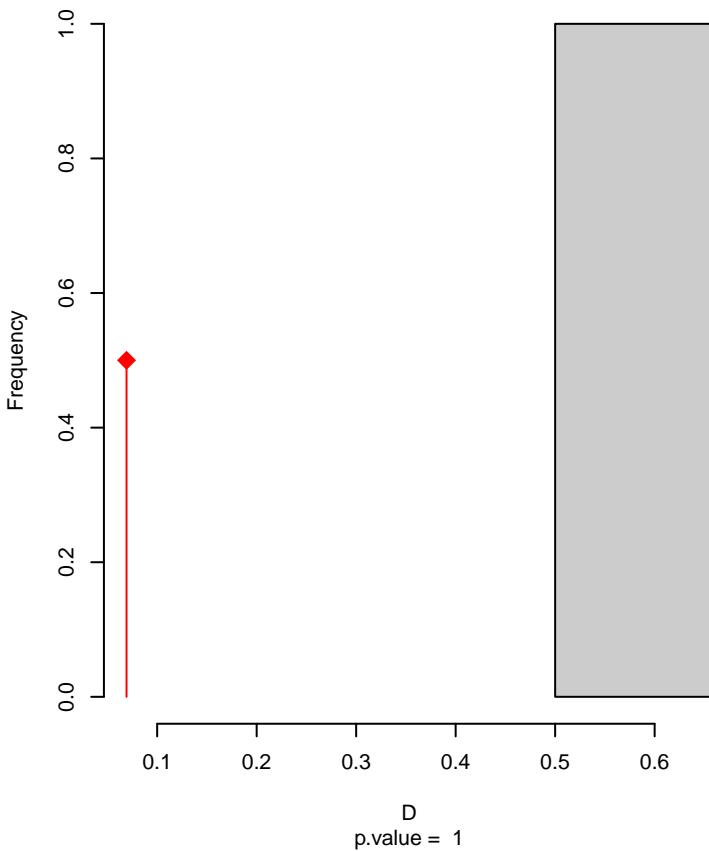
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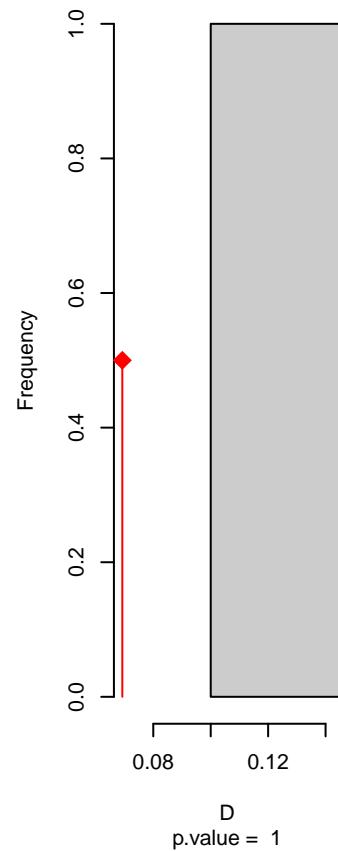
### Petrochelidon\_rufigula seasonal overlap



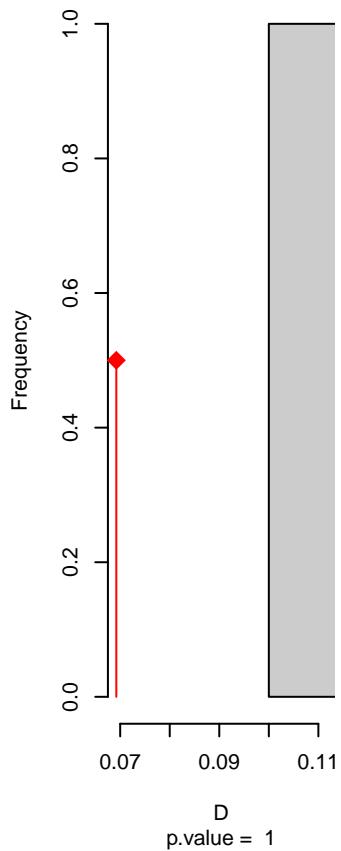
**Equivalency**



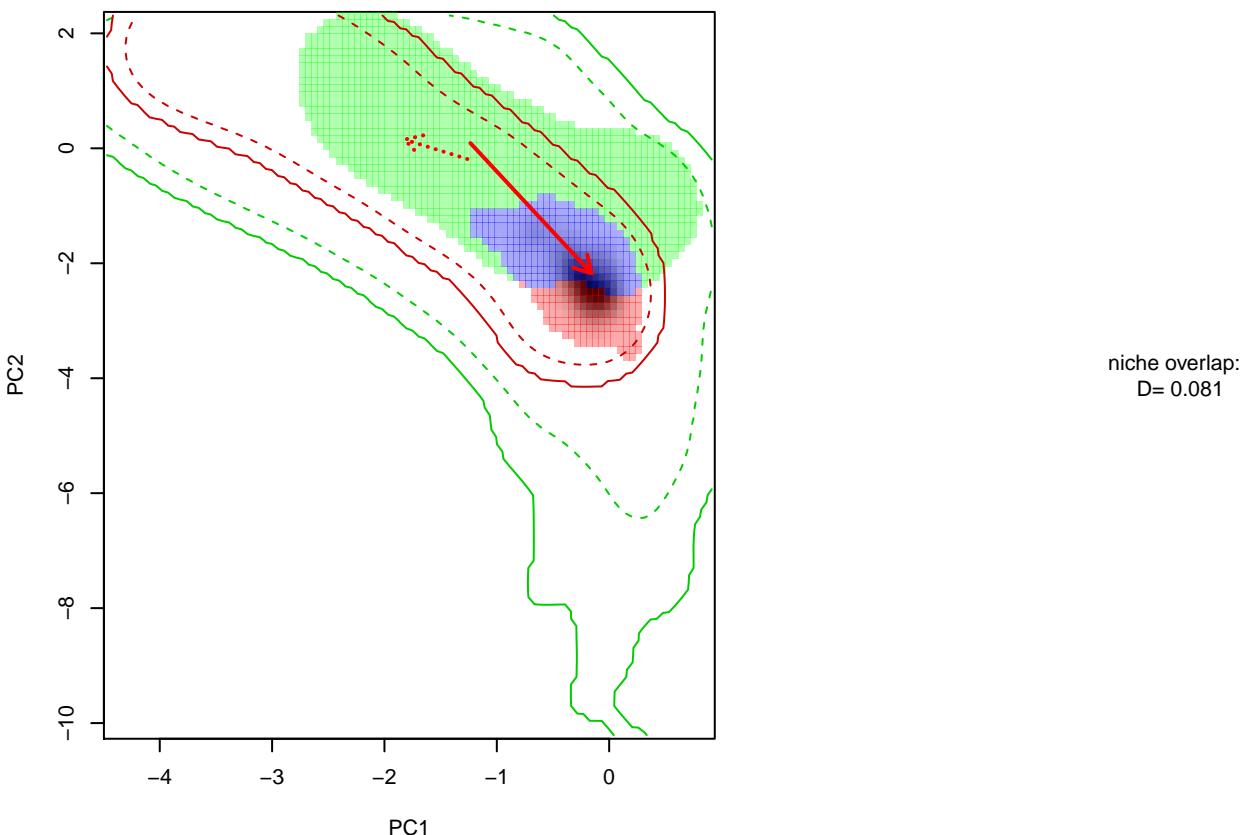
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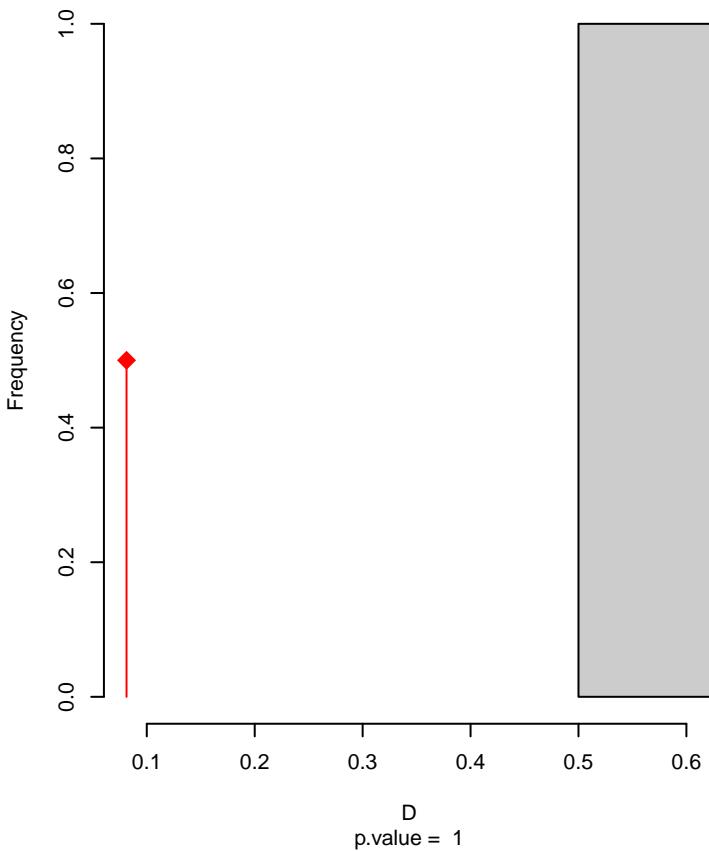
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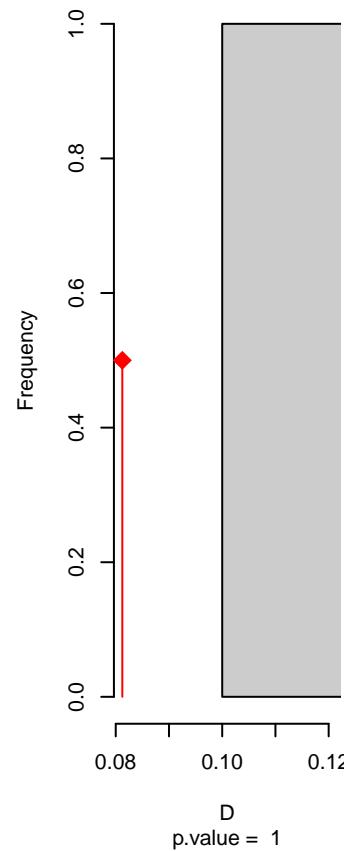
# Petrochelidon\_rufigula seasonal overlap–hypo.br



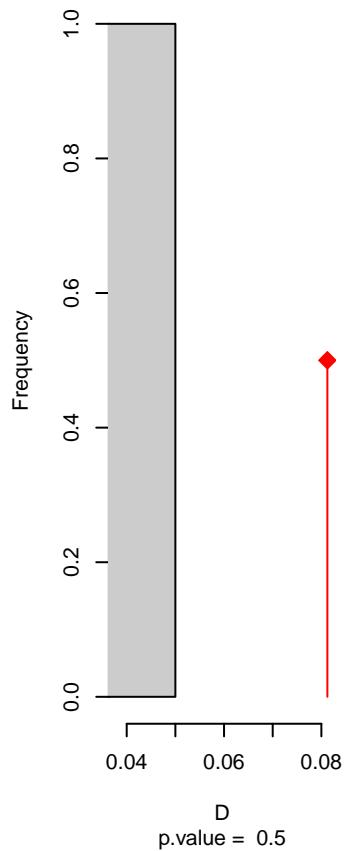
**Equivalency**



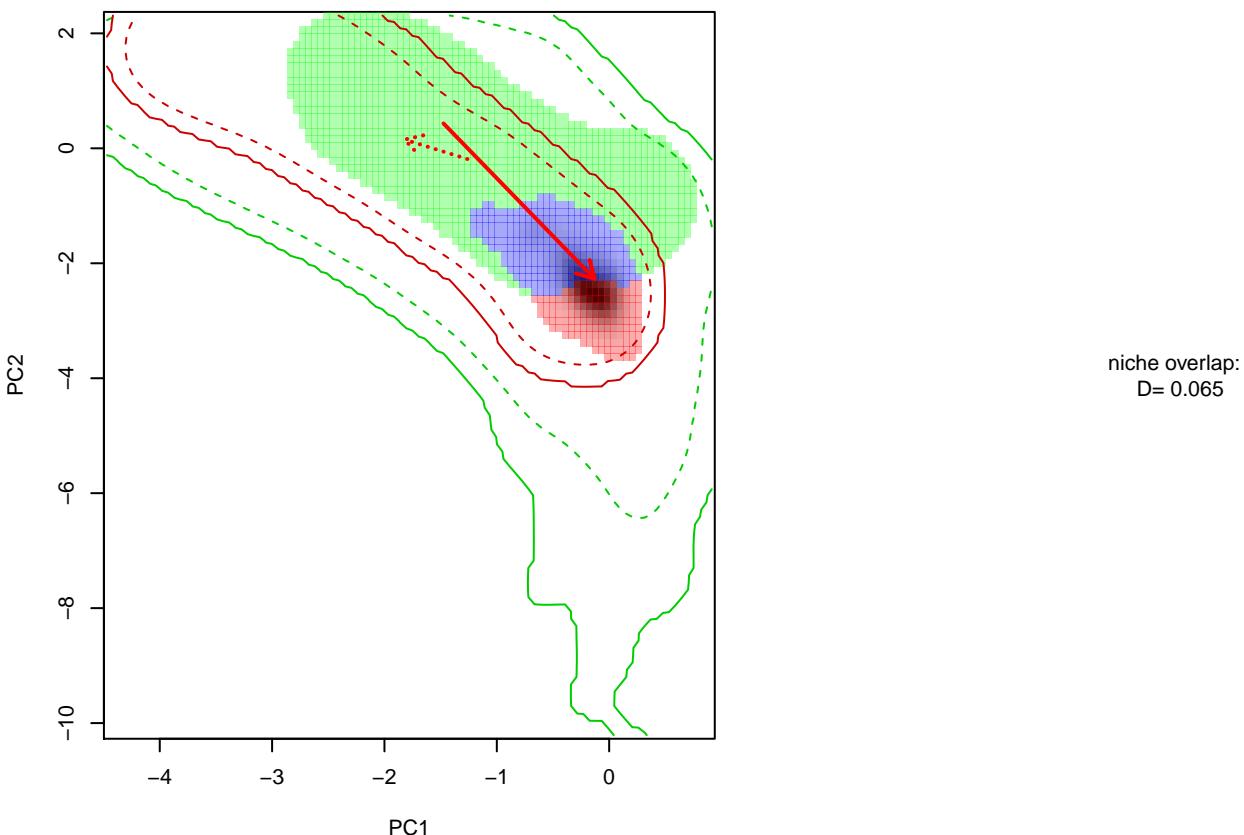
**Similarity 2→1**



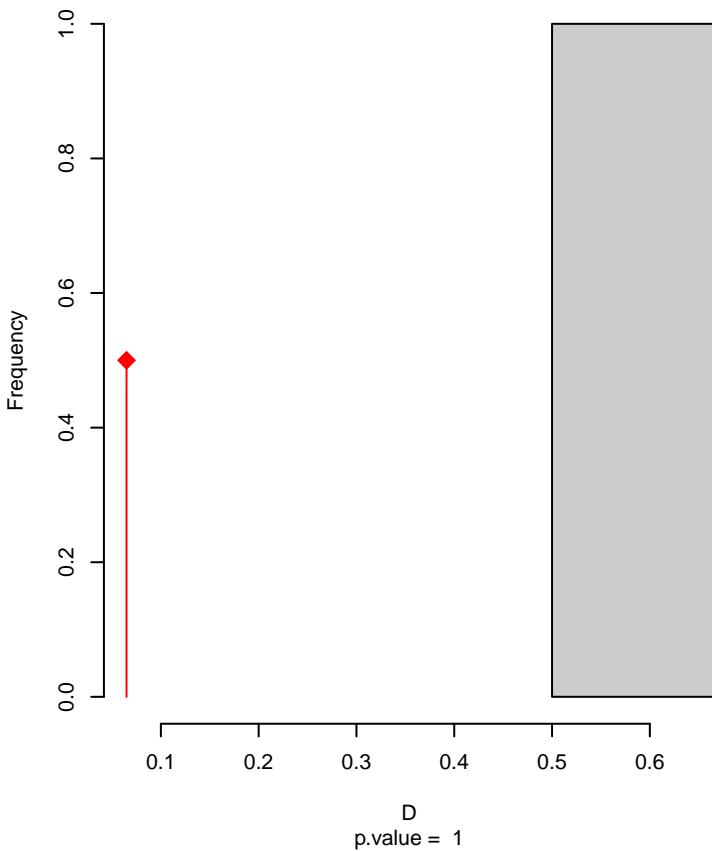
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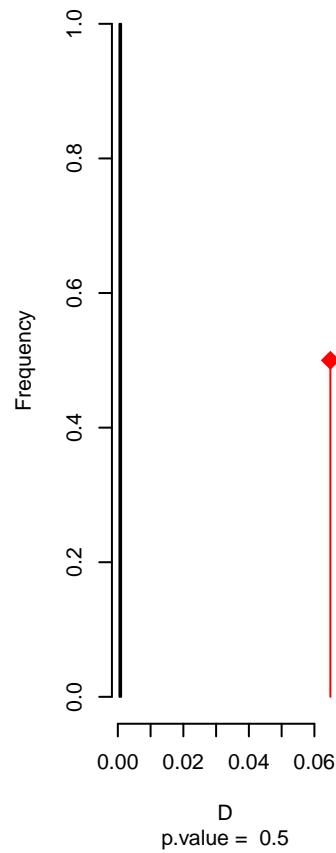
# Petrochelidon\_rufigula seasonal overlap–hypo wi



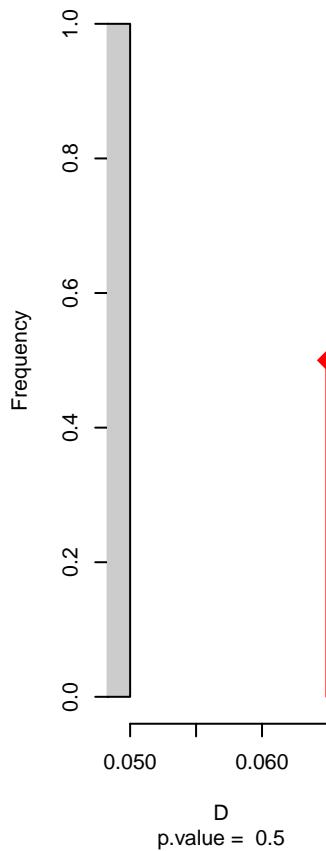
**Equivalency**



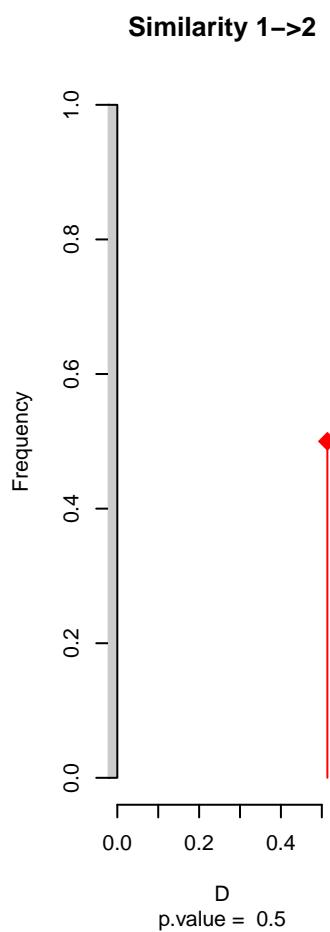
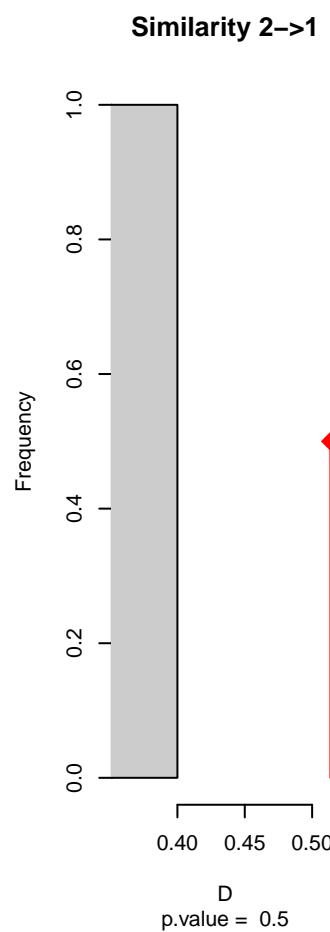
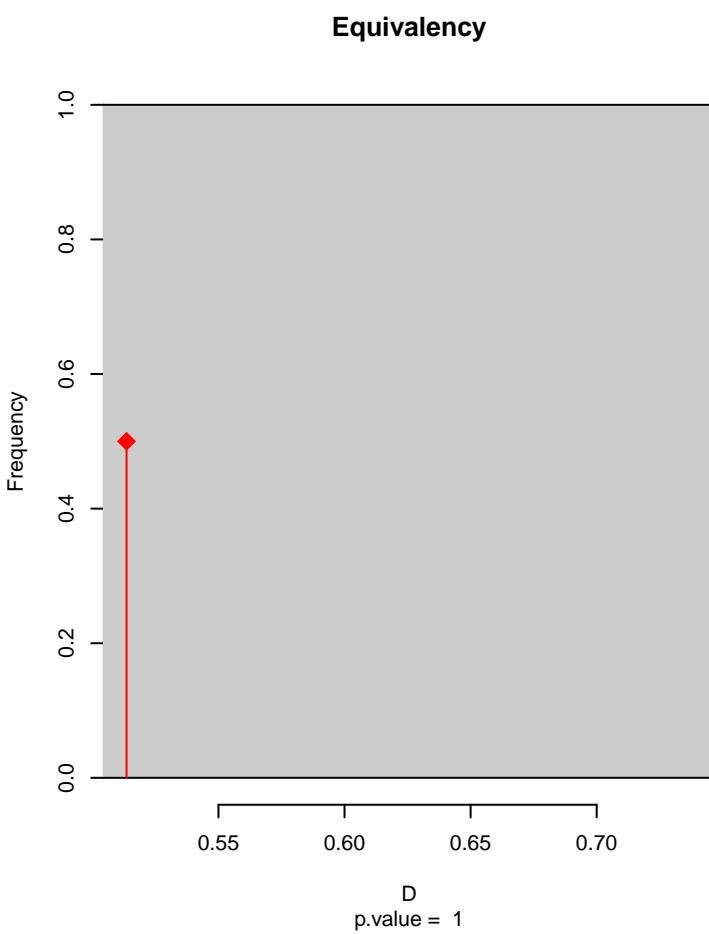
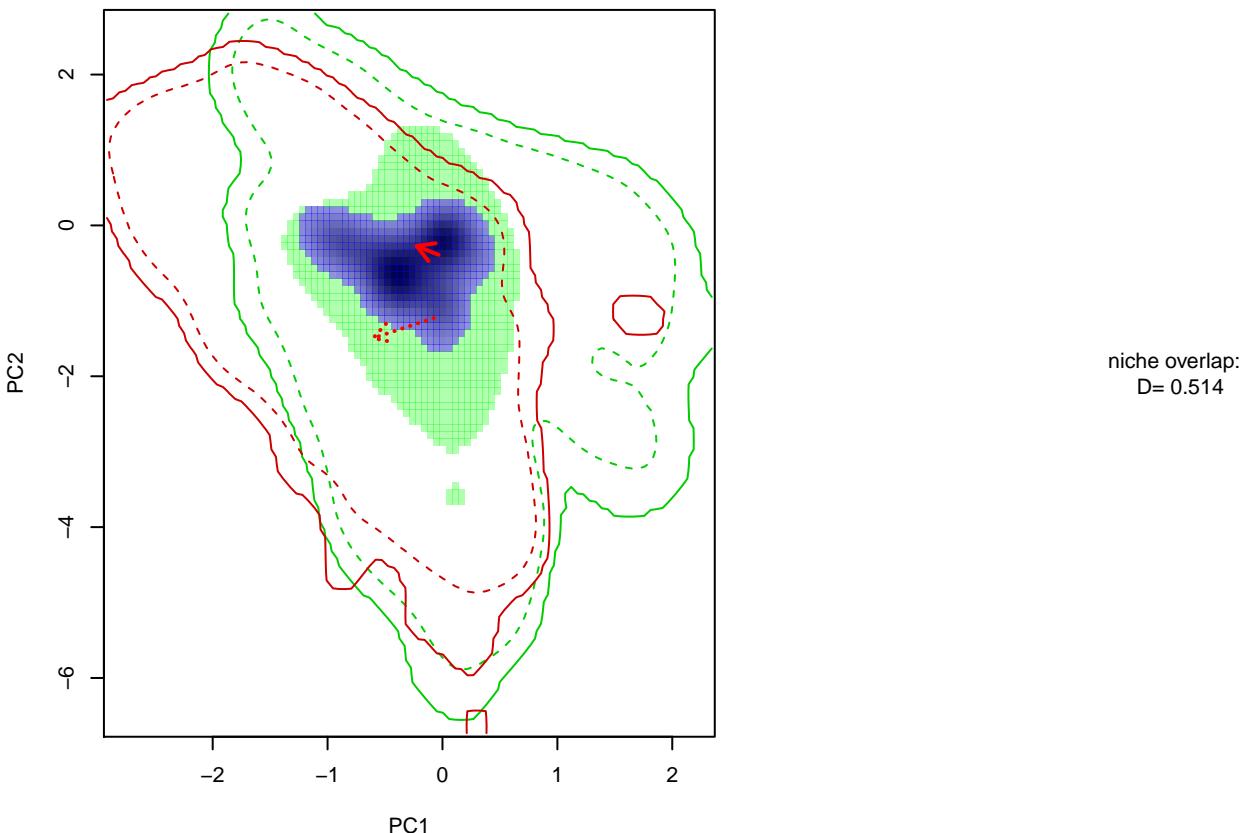
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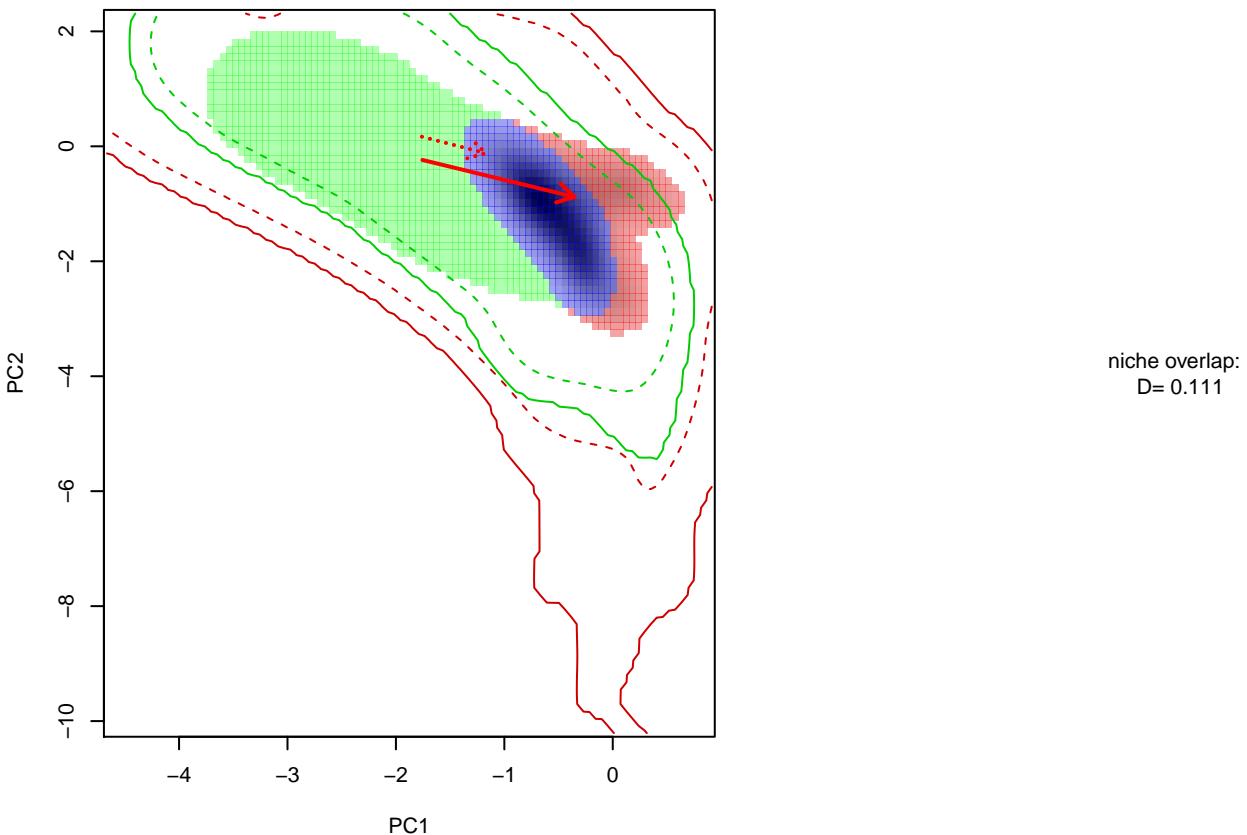
**Similarity 1→2**



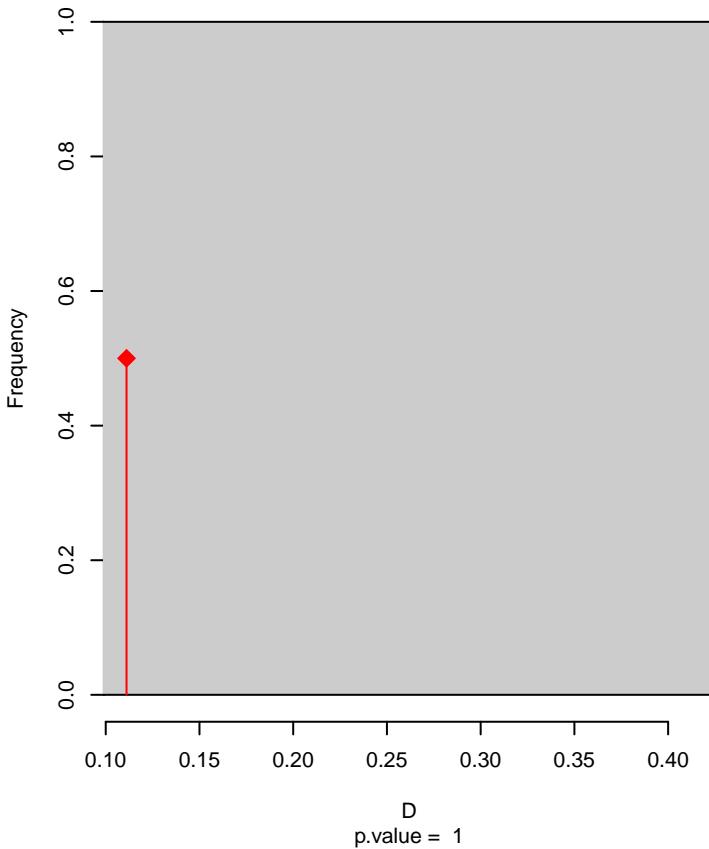
### Petrochelidon\_rufocollaris seasonal overlap



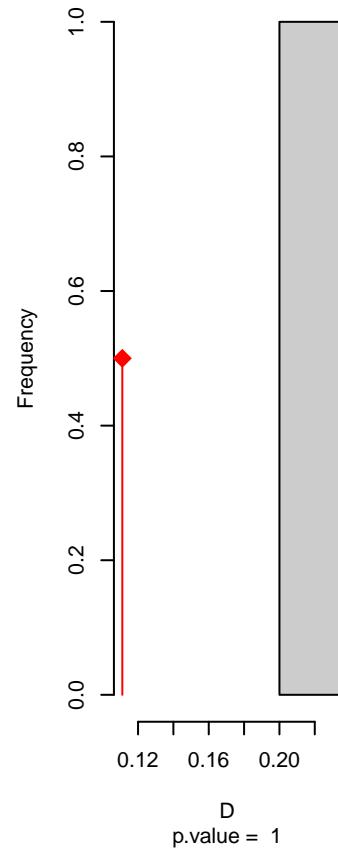
### Petrochelidon\_spilodera seasonal overlap



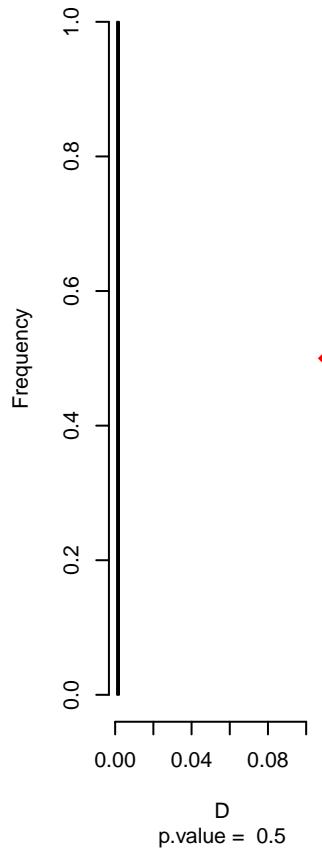
**Equivalency**



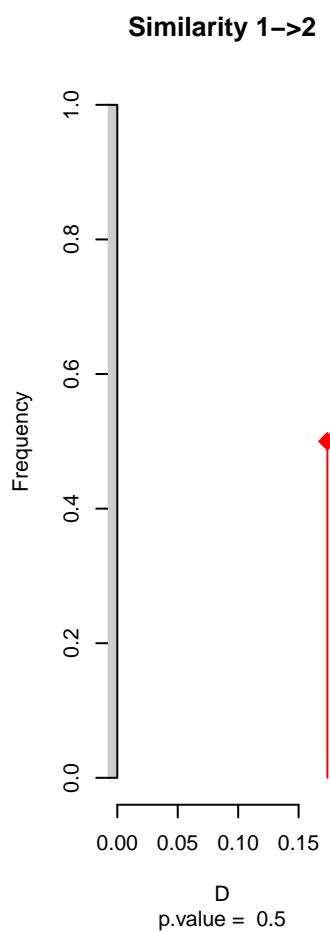
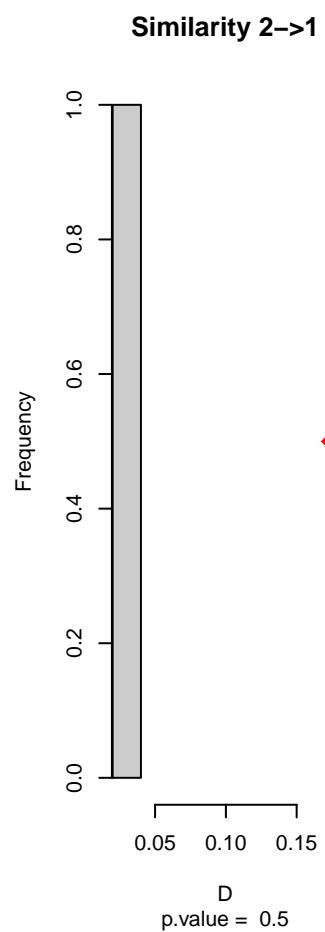
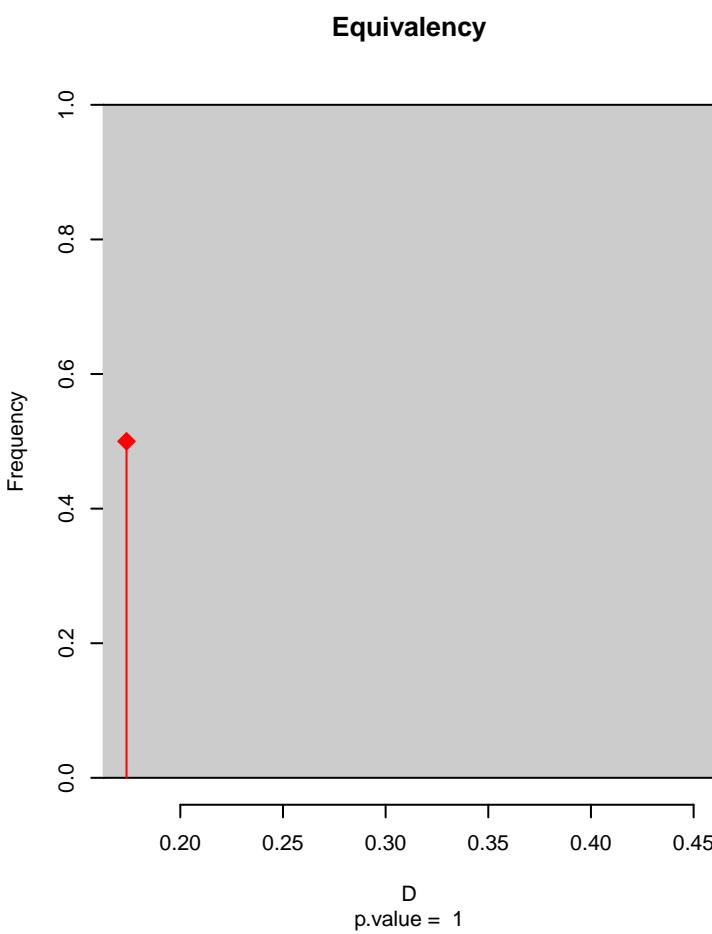
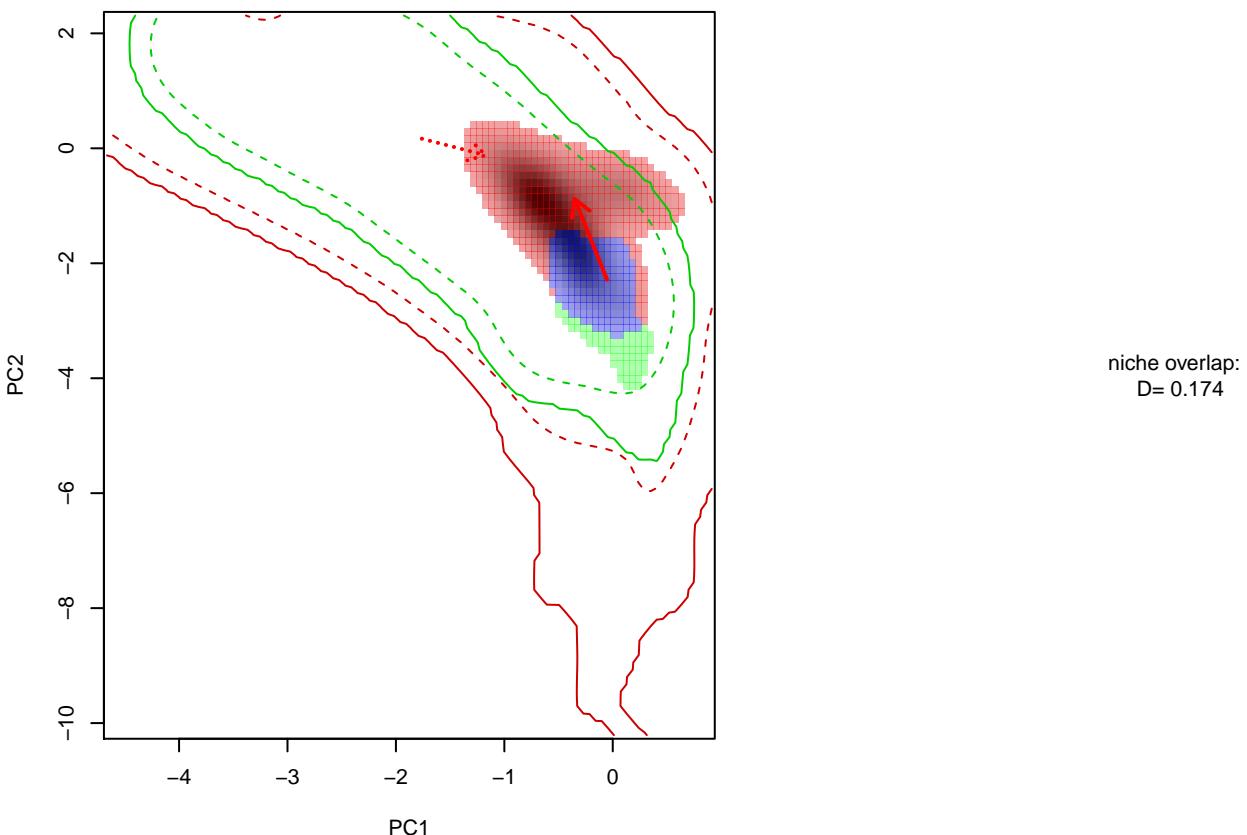
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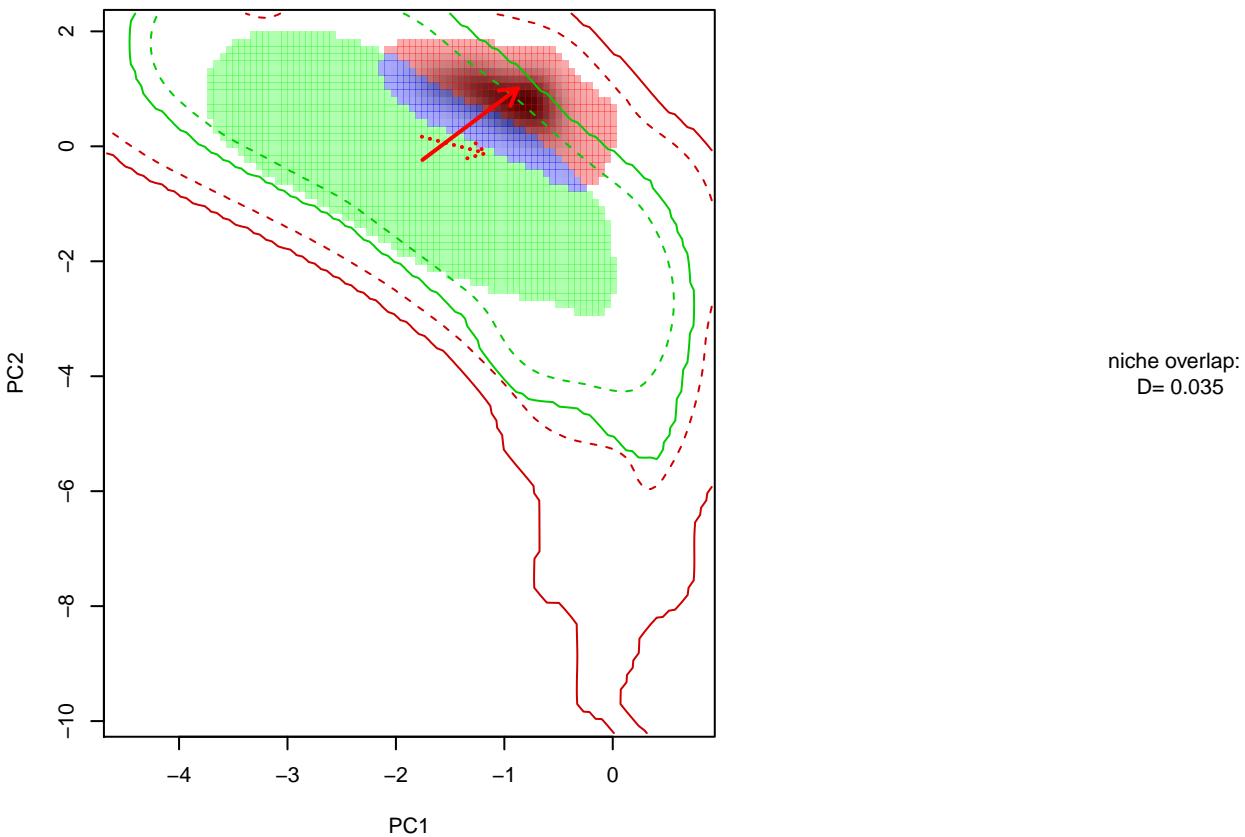
**Similarity 1→2**



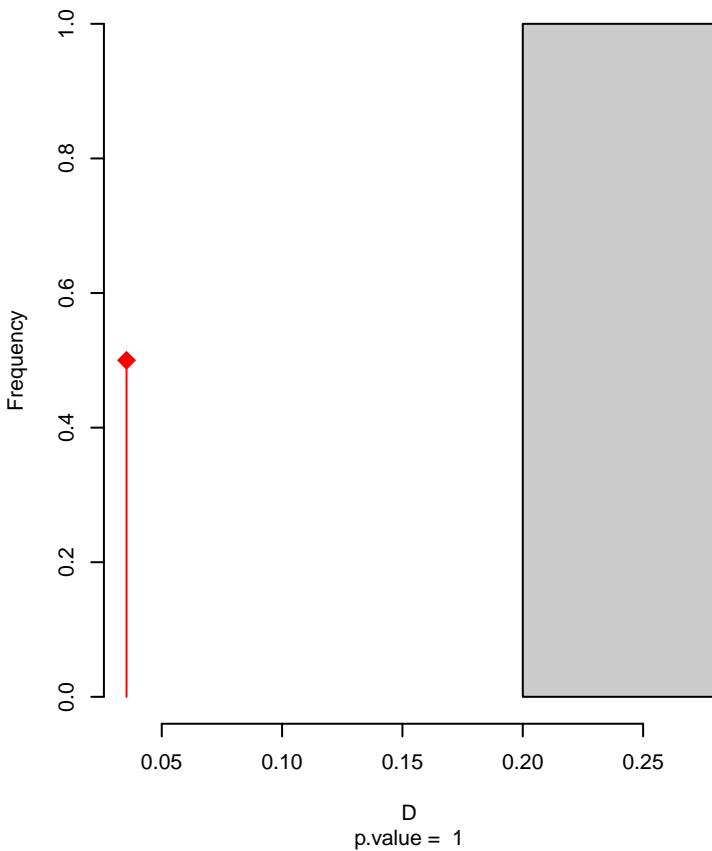
# Petrochelidon\_spilodera seasonal overlap-hypo.br



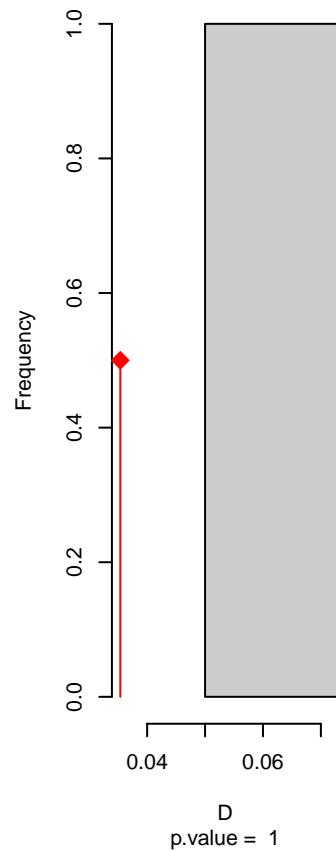
# Petrochelidon\_spilogaster seasonal overlap-hypo wi



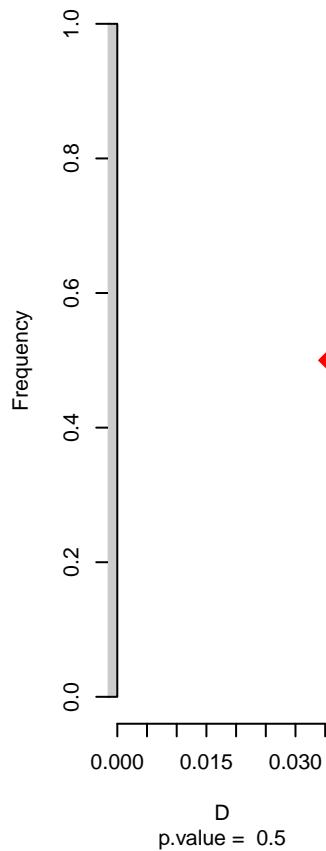
**Equivalency**



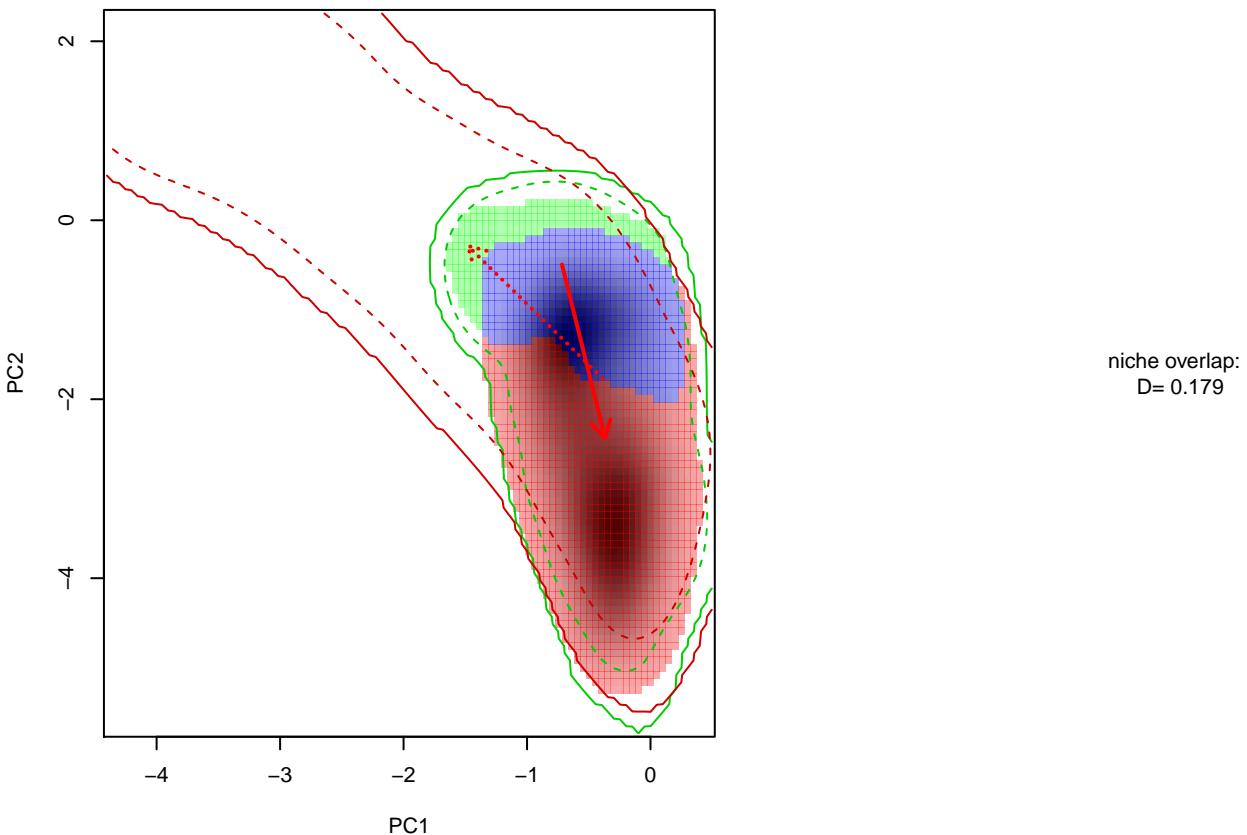
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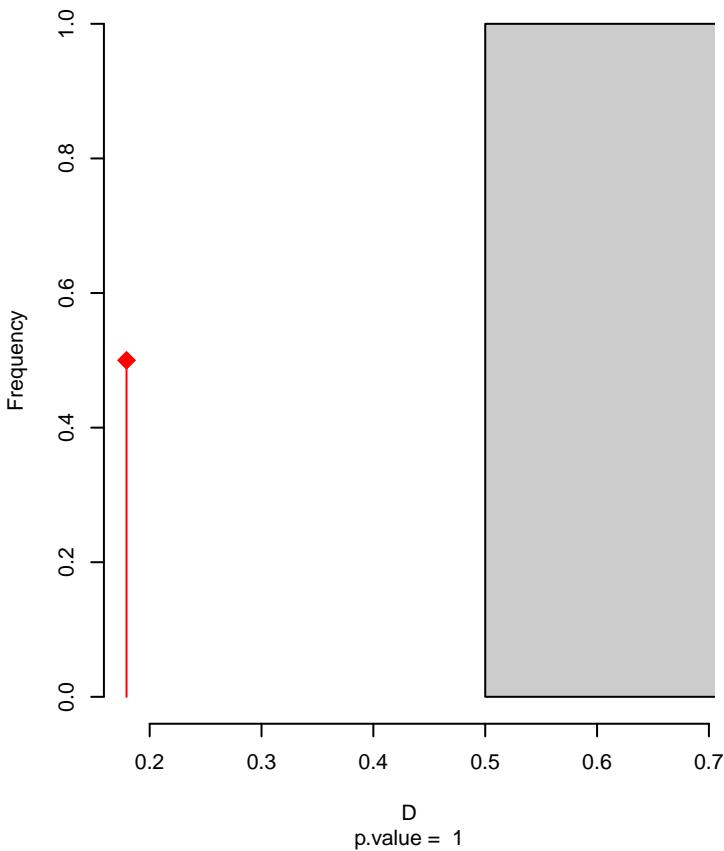
**Similarity 1→2**



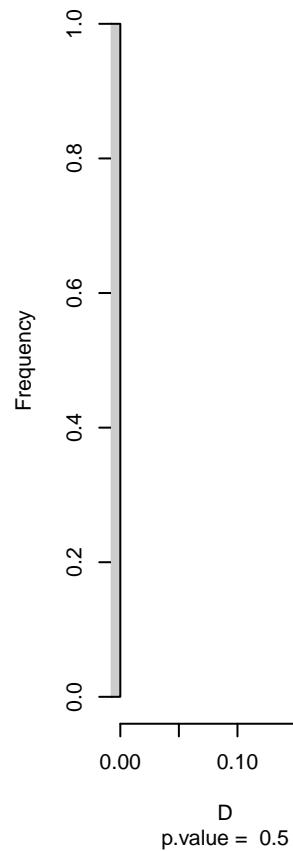
### *Phedina\_borbonica* seasonal overlap



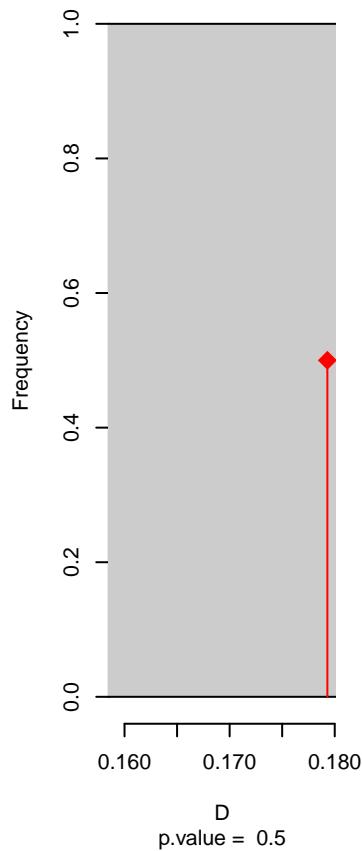
Equivalency



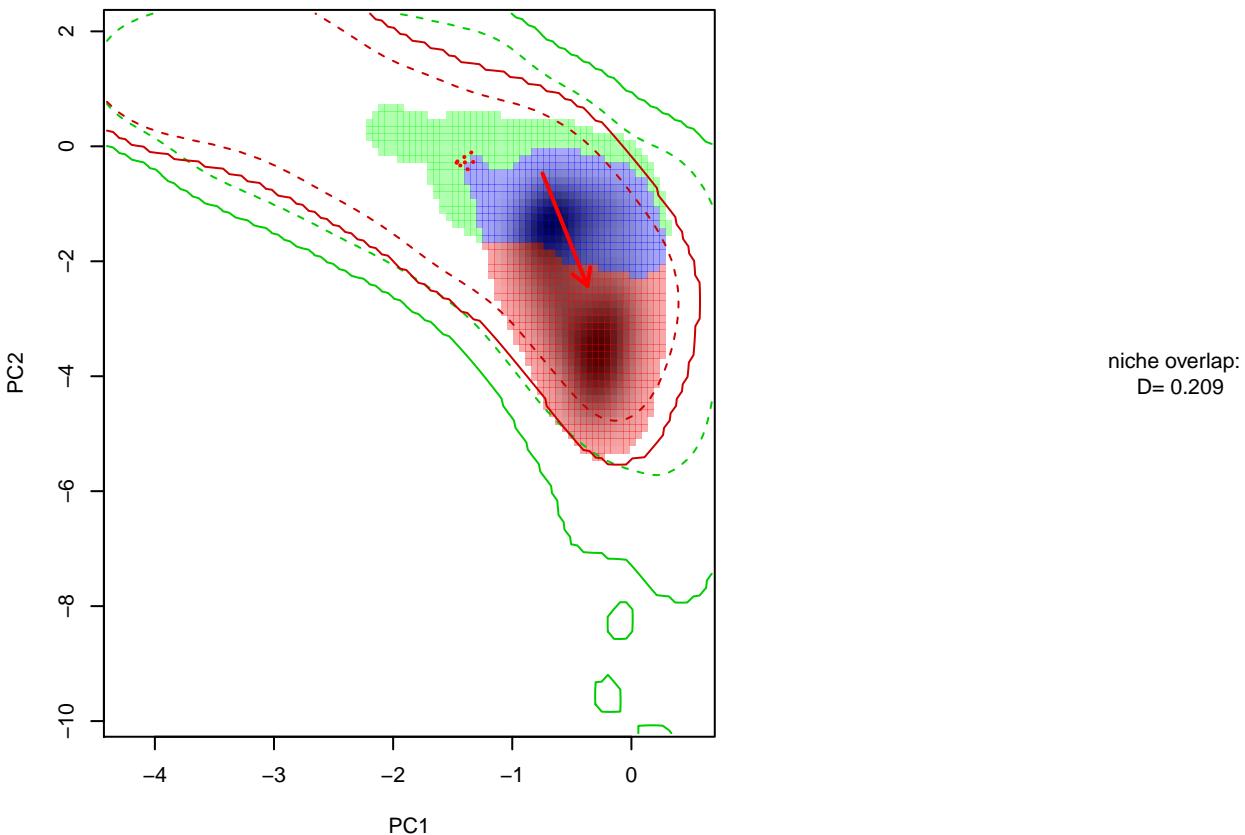
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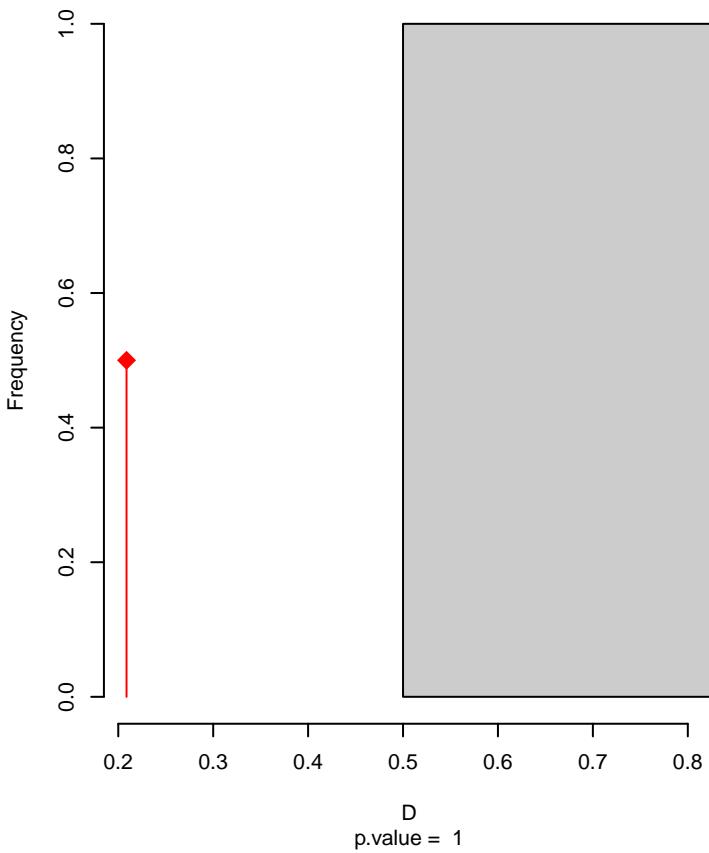
Similarity 1→2



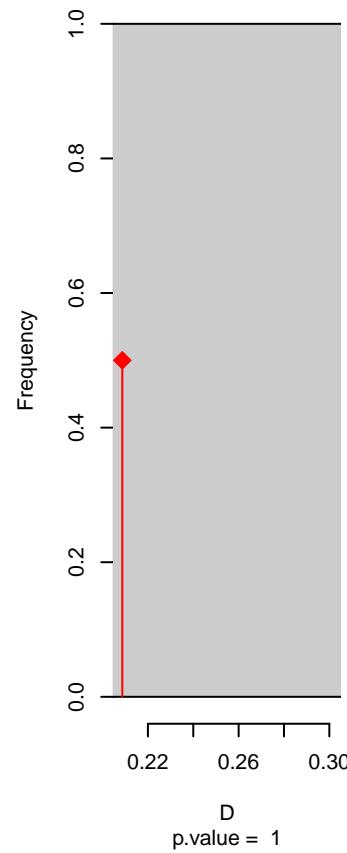
# Phedina\_borbonica seasonal overlap-hypo.br



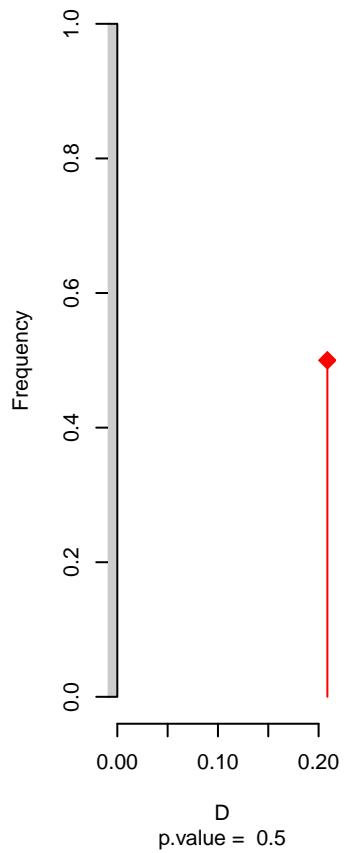
**Equivalency**



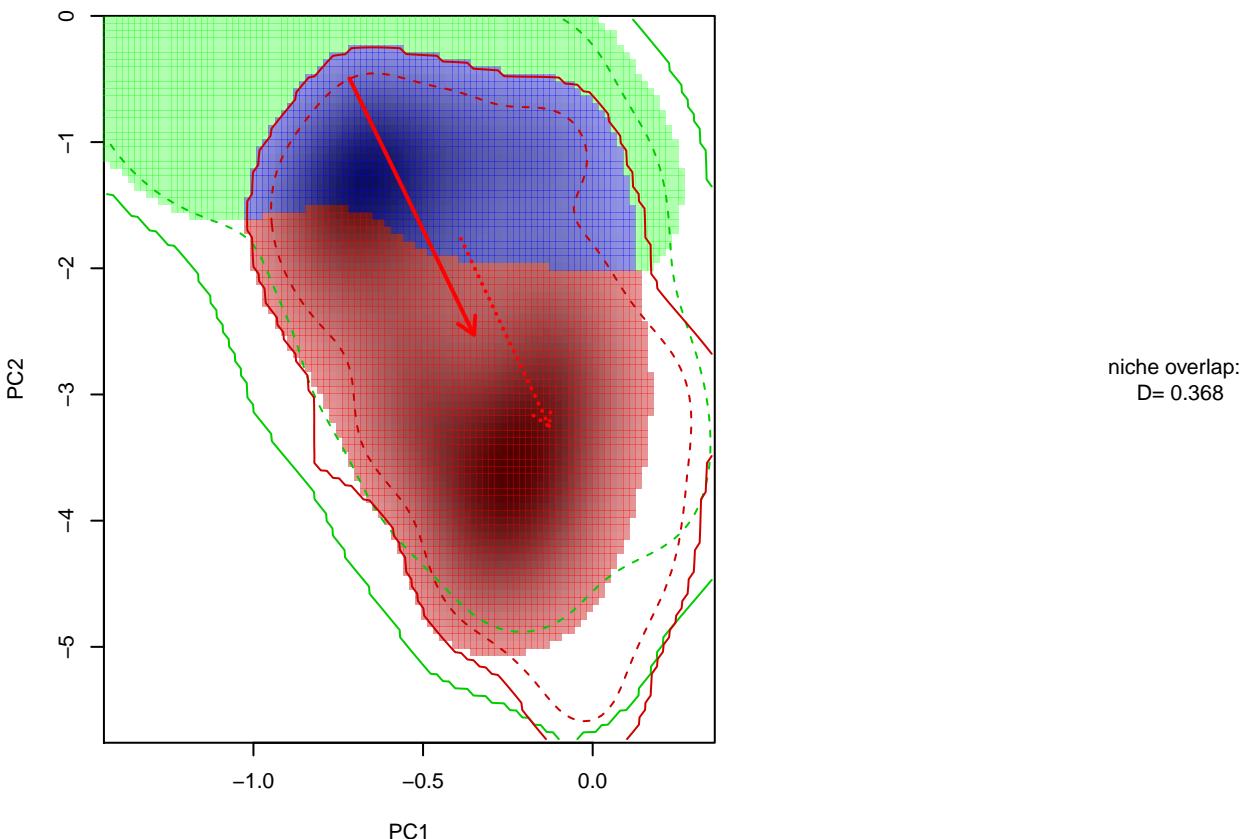
**Similarity 2→1**



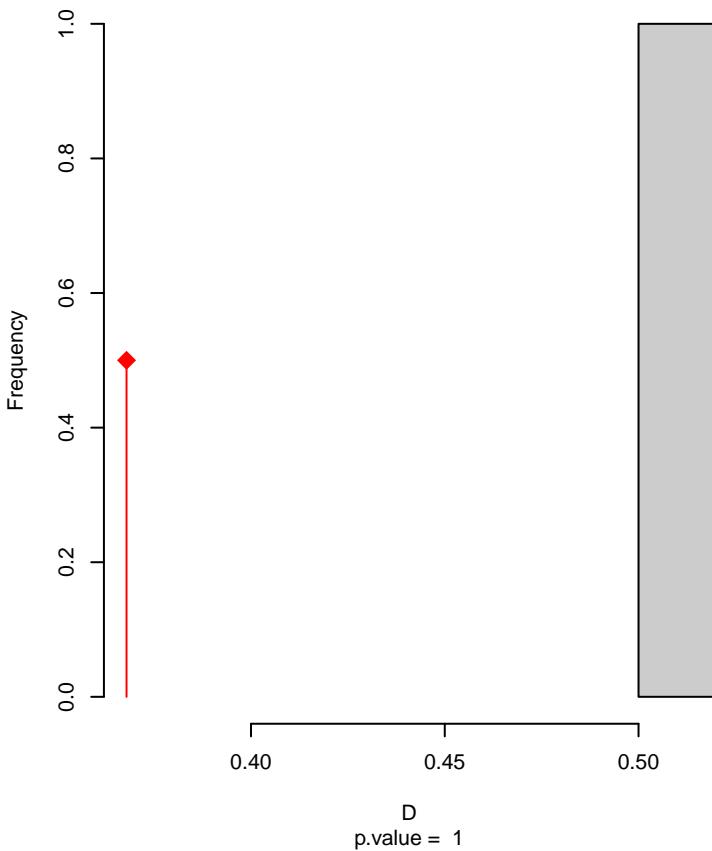
**Similarity 1→2**



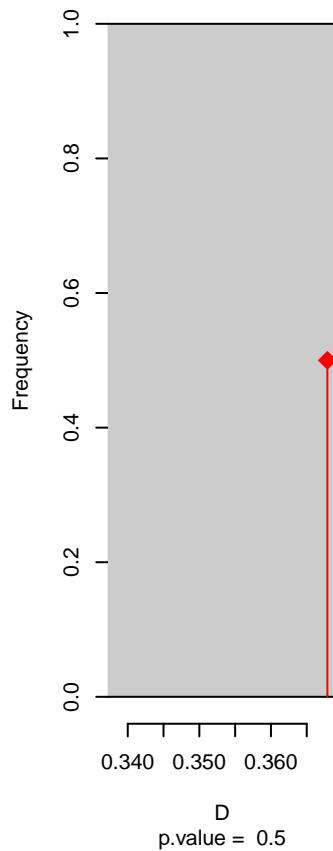
# *Phedina\_borbonica* seasonal overlap-hypo wi



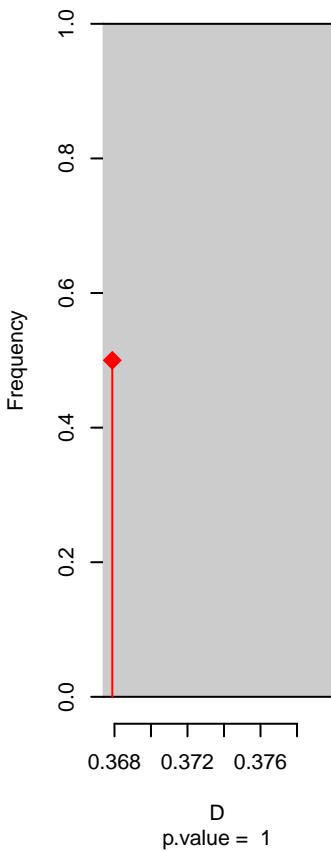
Equivalency



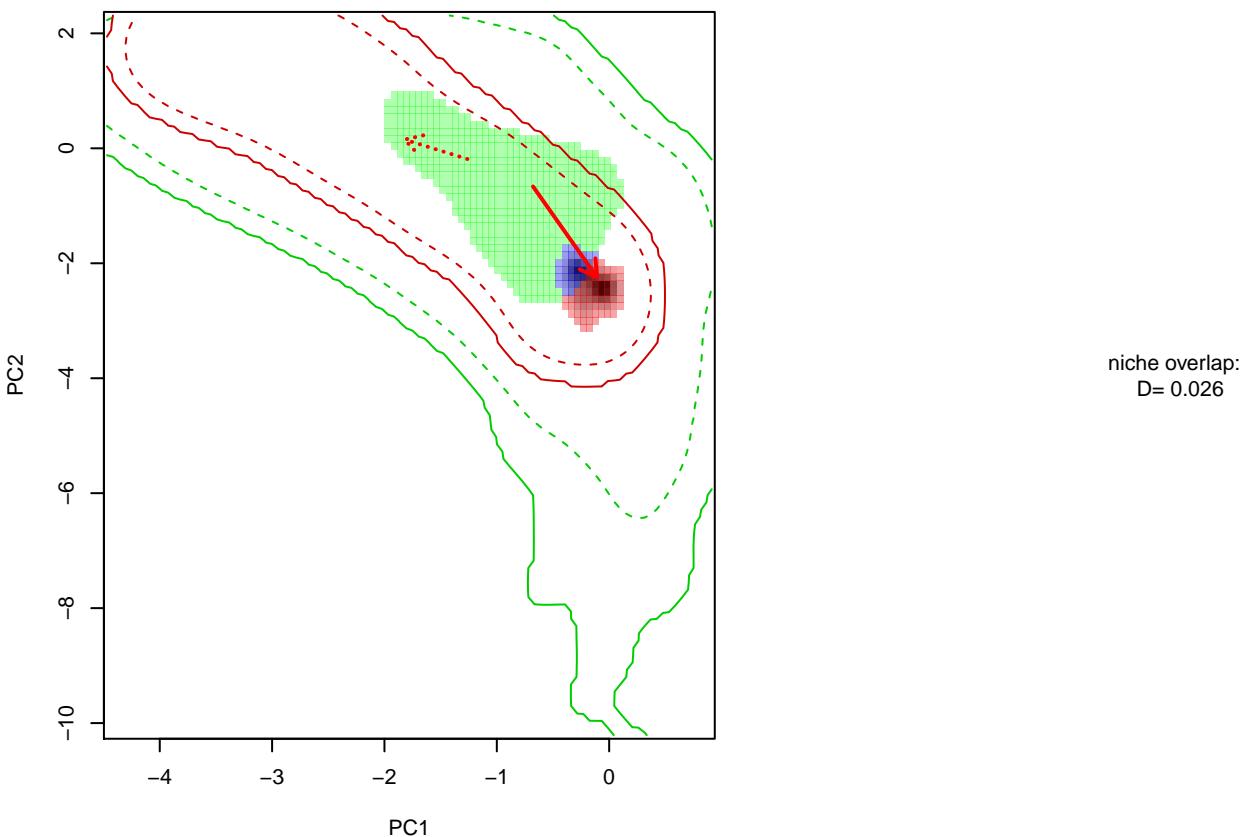
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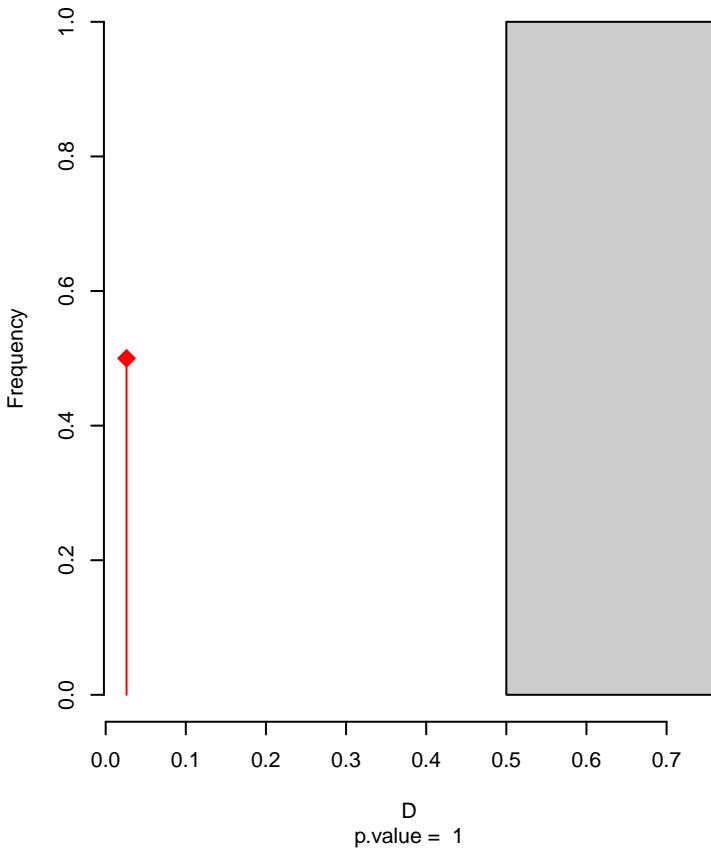
Similarity 1→2



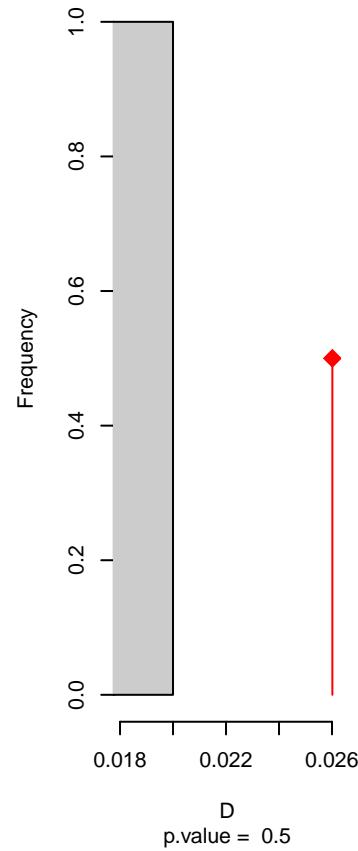
### Phedina\_brazzae seasonal overlap



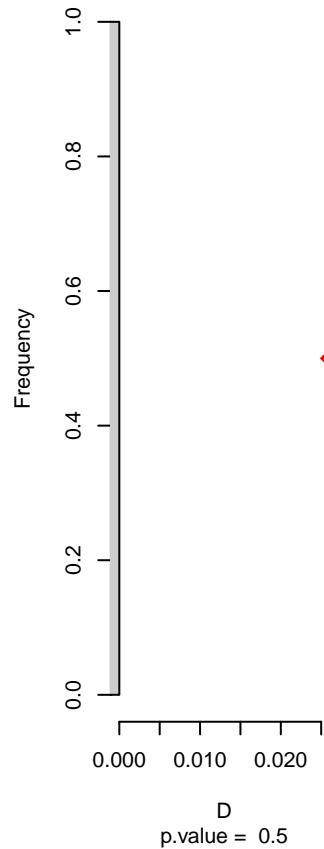
**Equivalency**



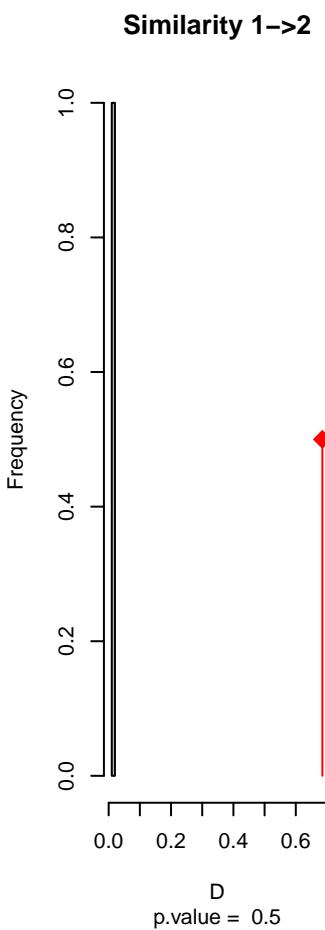
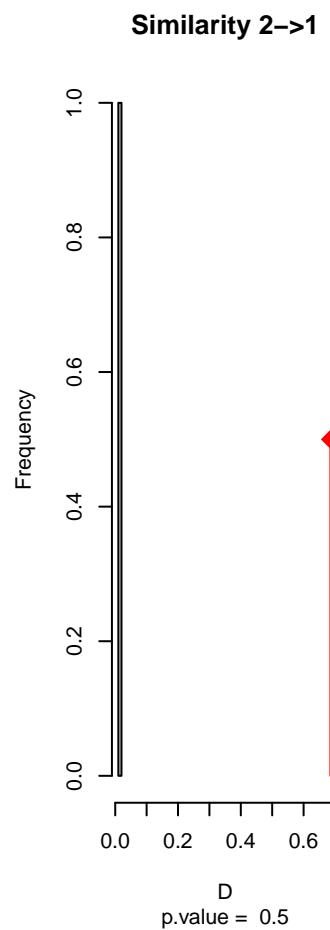
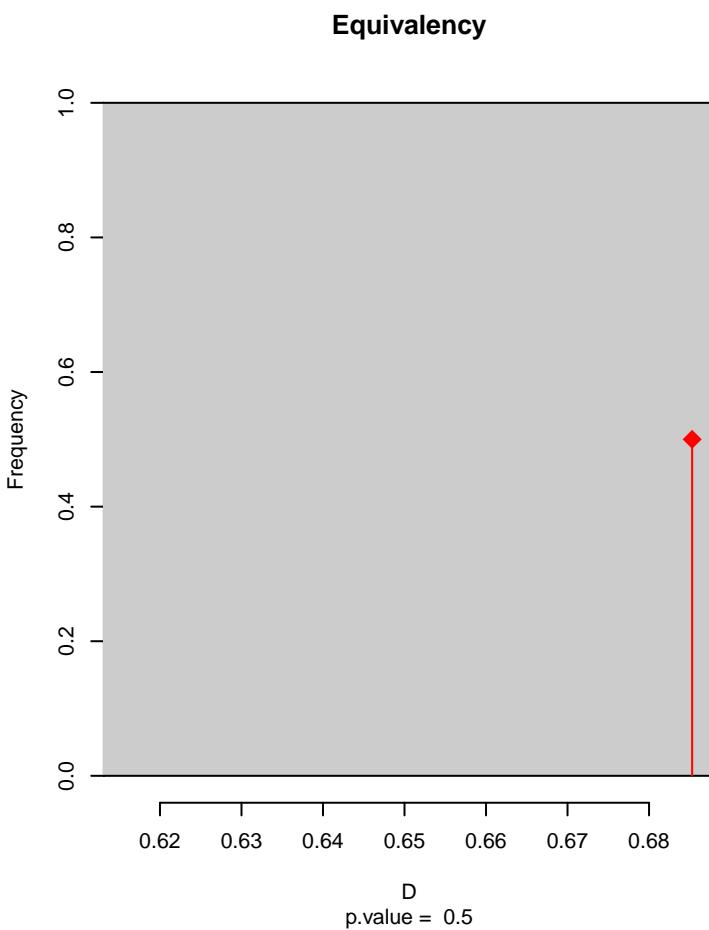
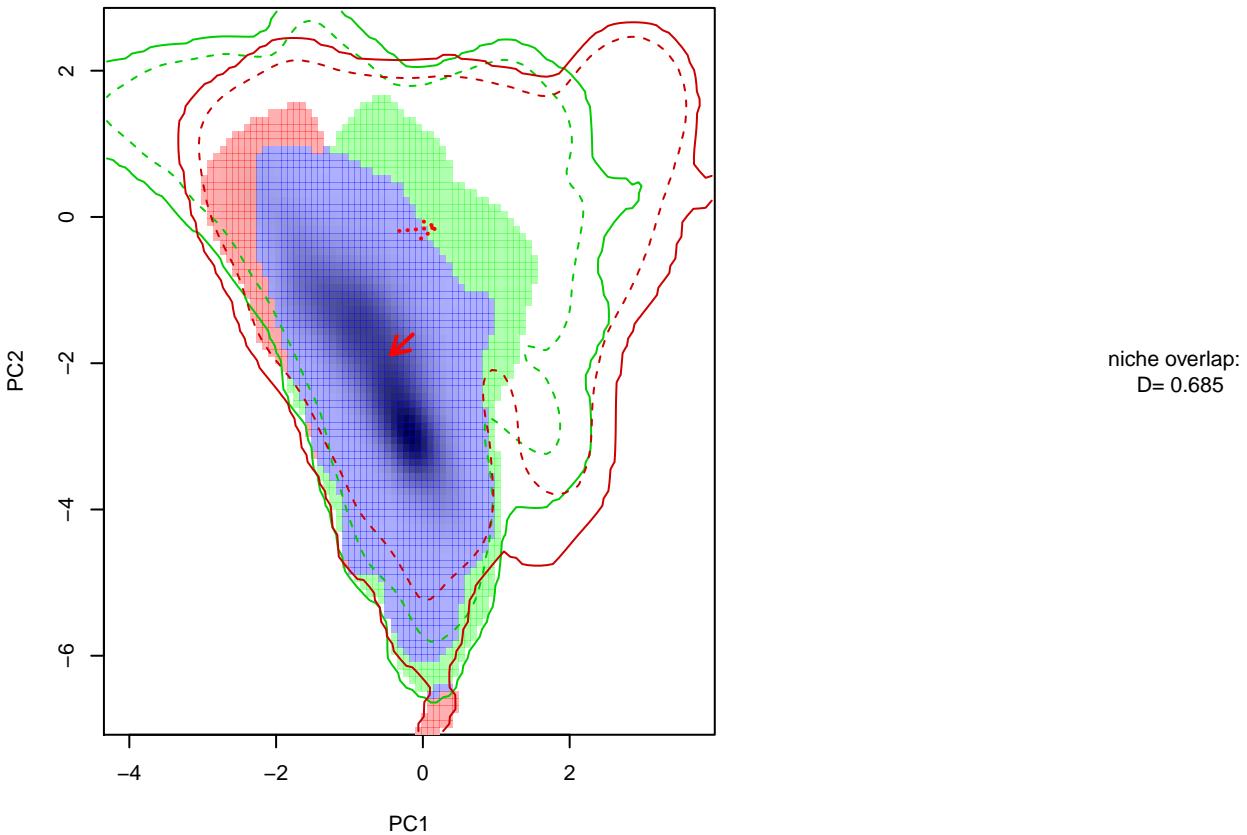
**Similarity 2→1**



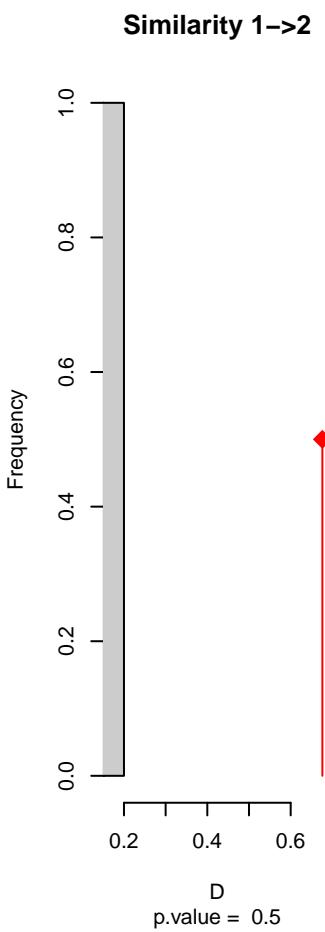
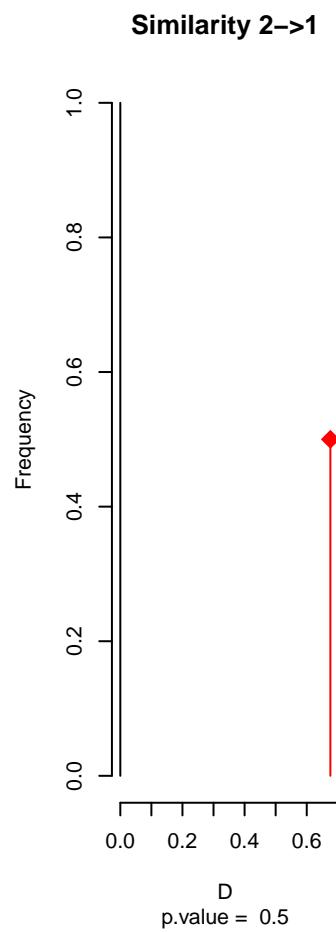
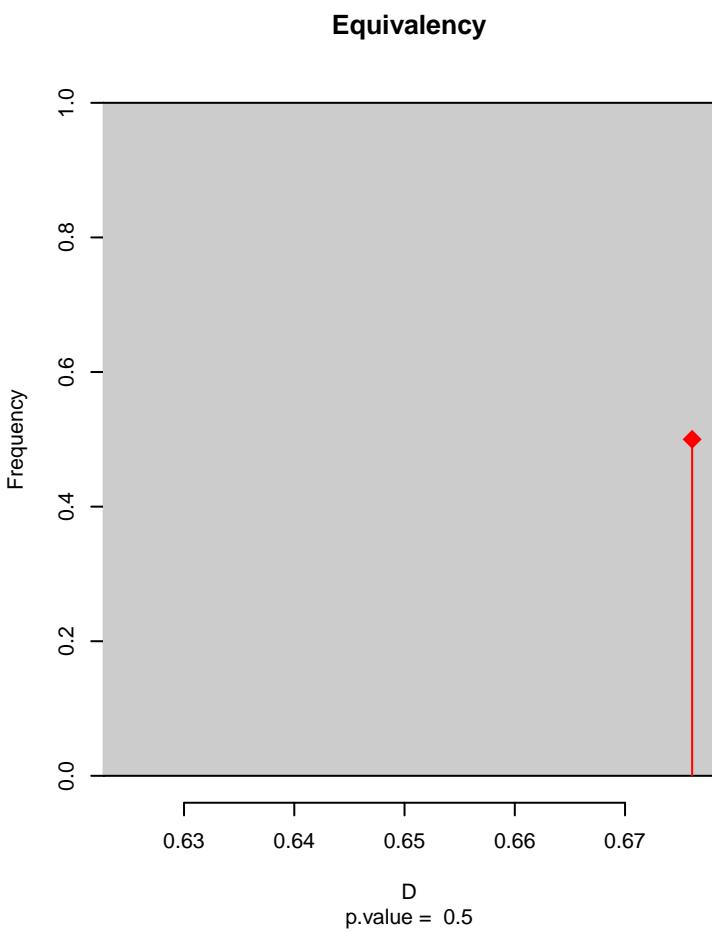
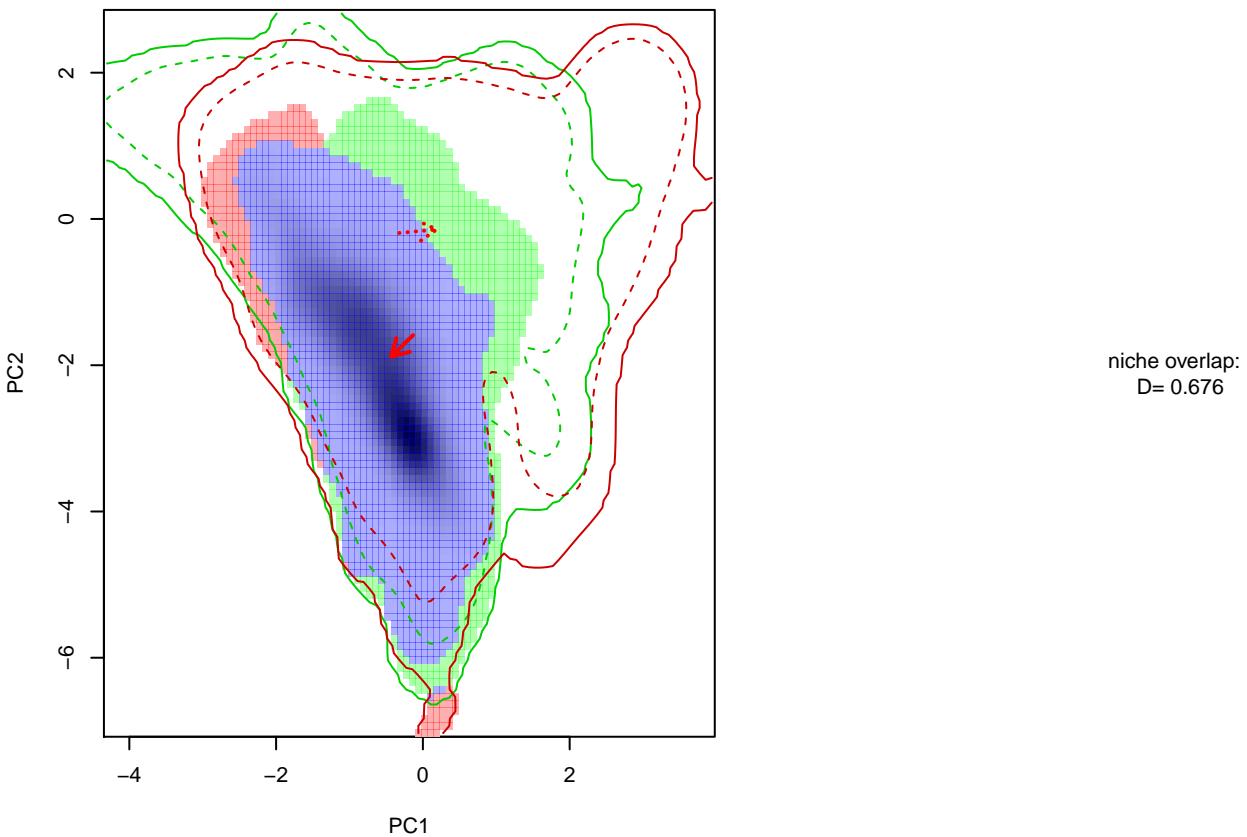
**Similarity 1→2**



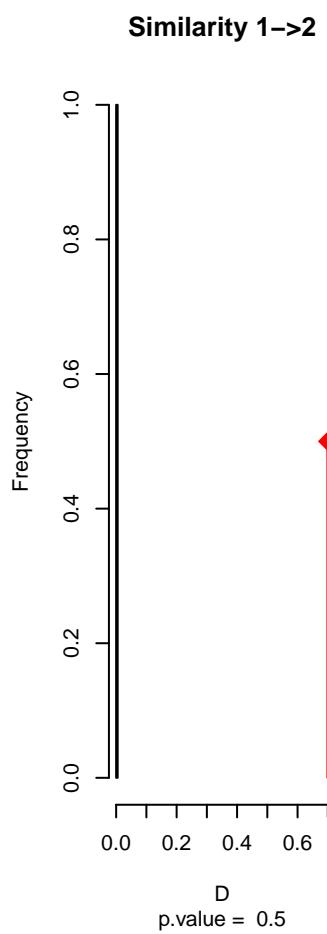
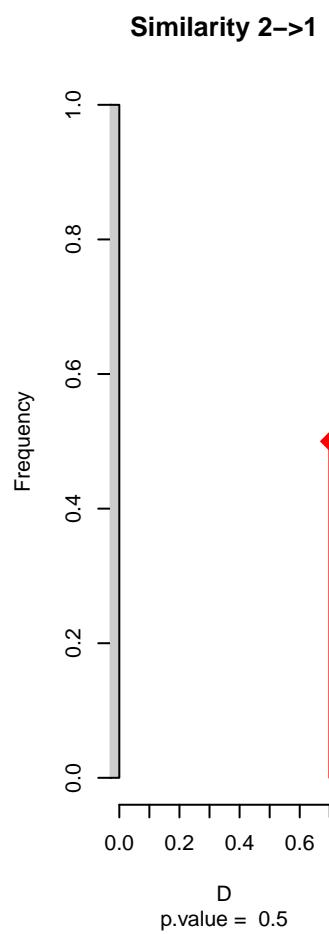
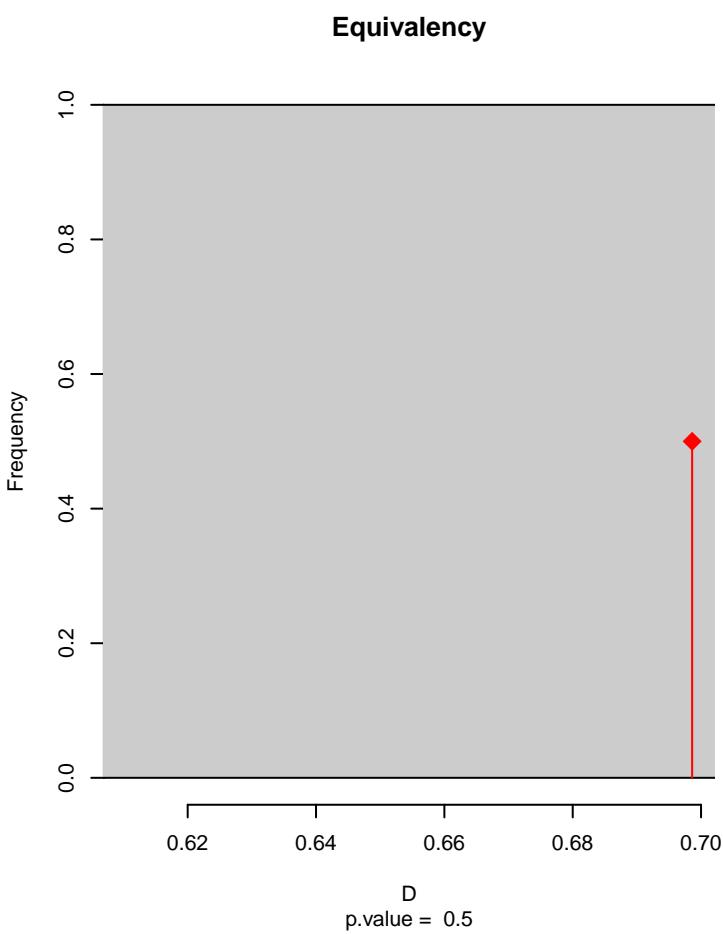
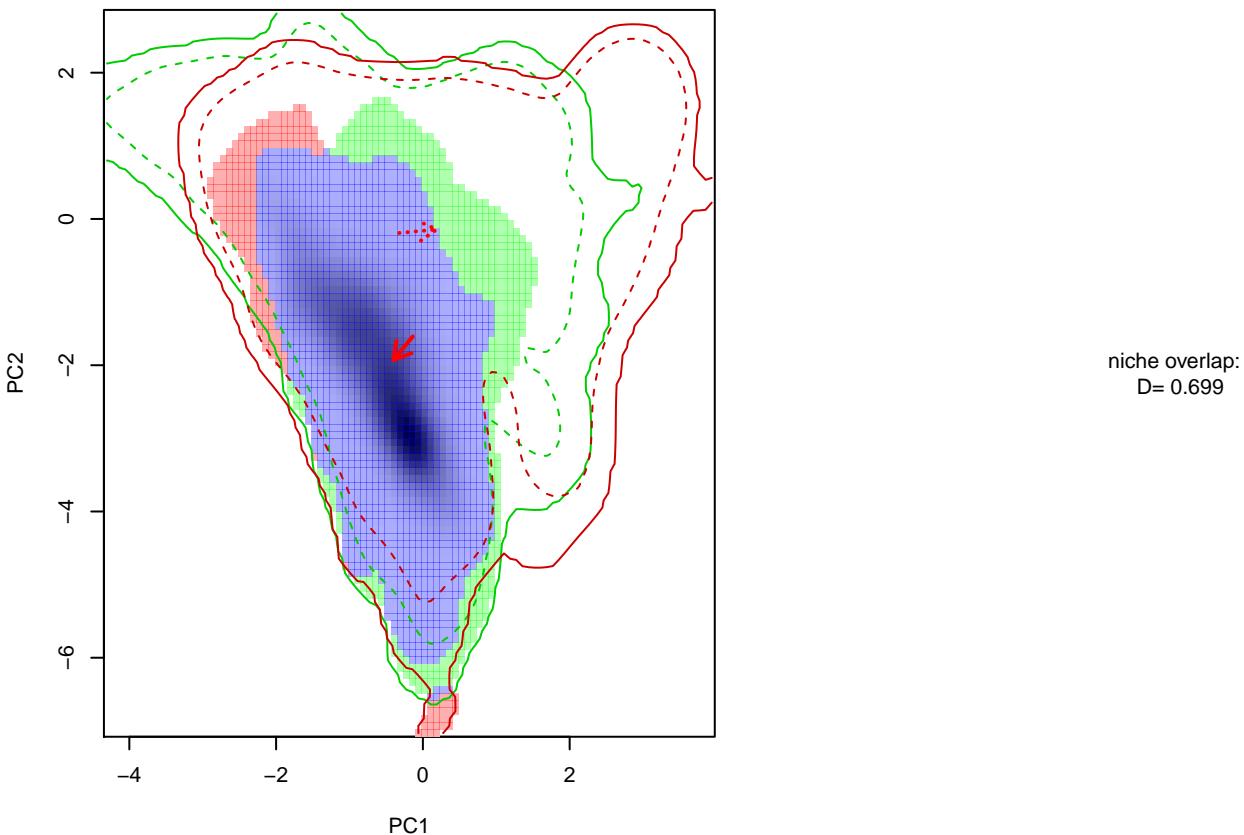
### Progne\_chalybea seasonal overlap



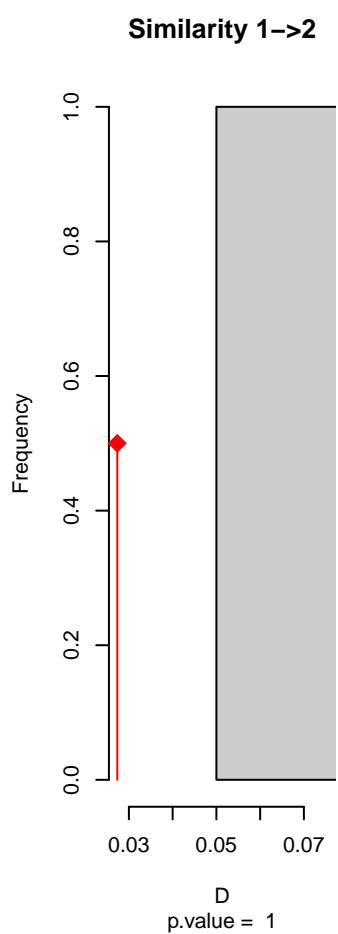
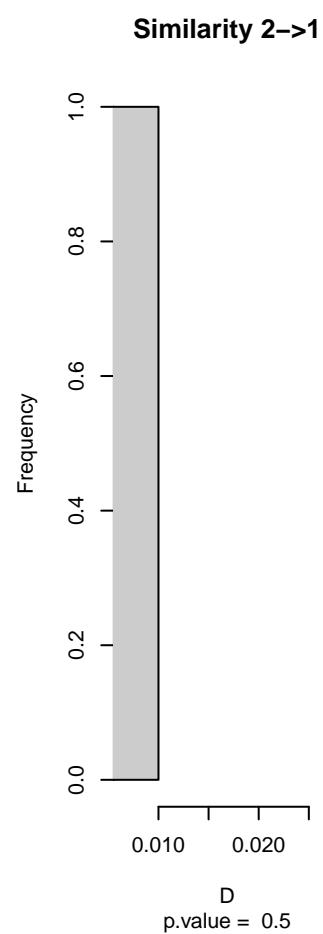
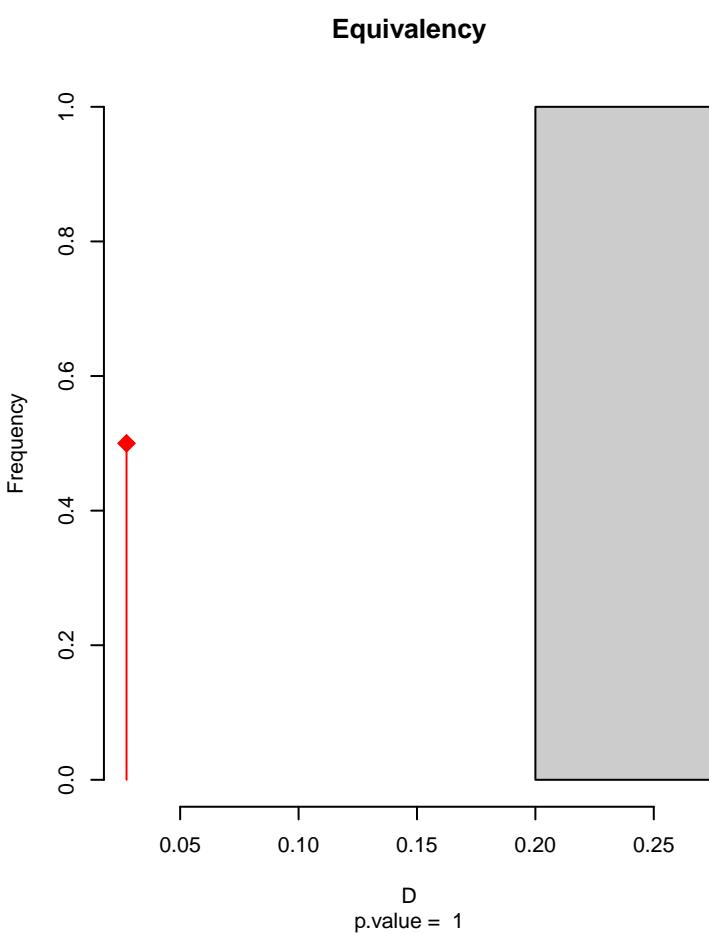
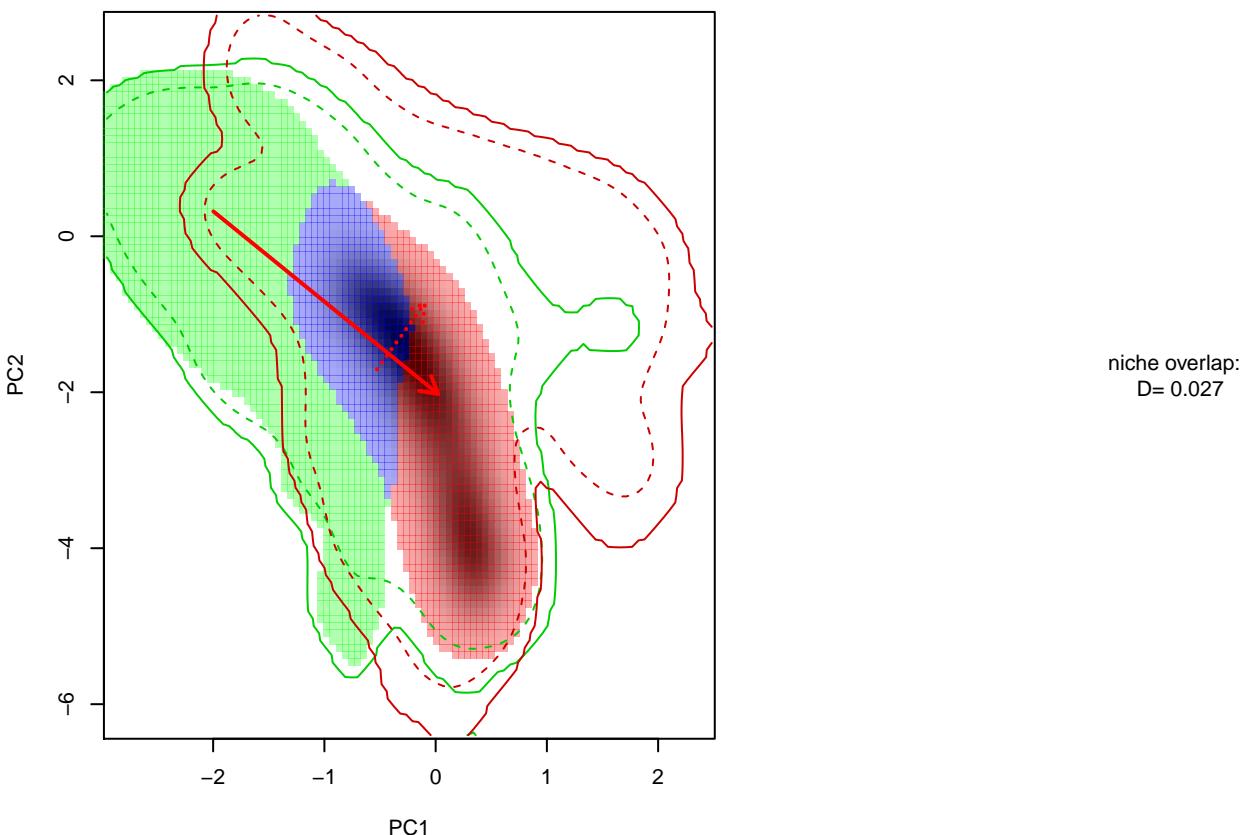
# Progne\_chalybea seasonal overlap-hypo.br



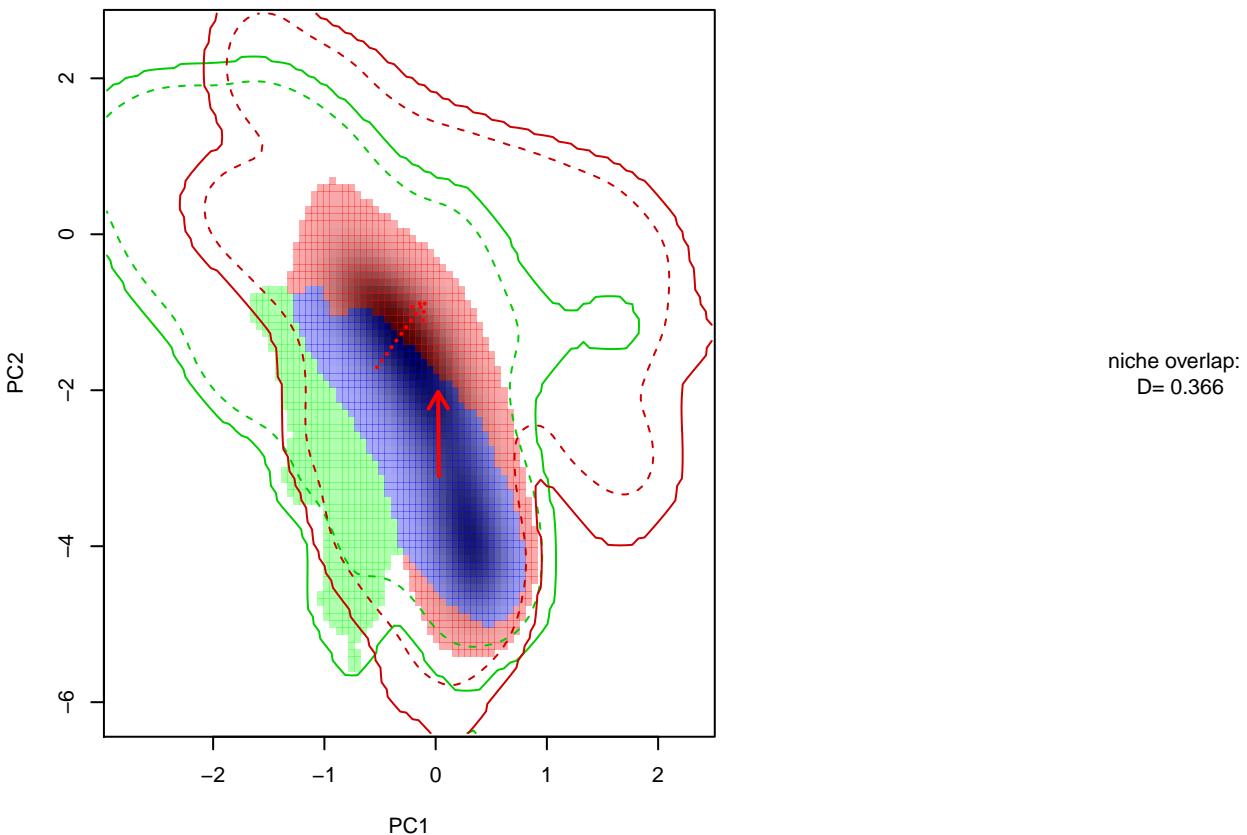
# Progne\_chalybea seasonal overlap-hypo wi



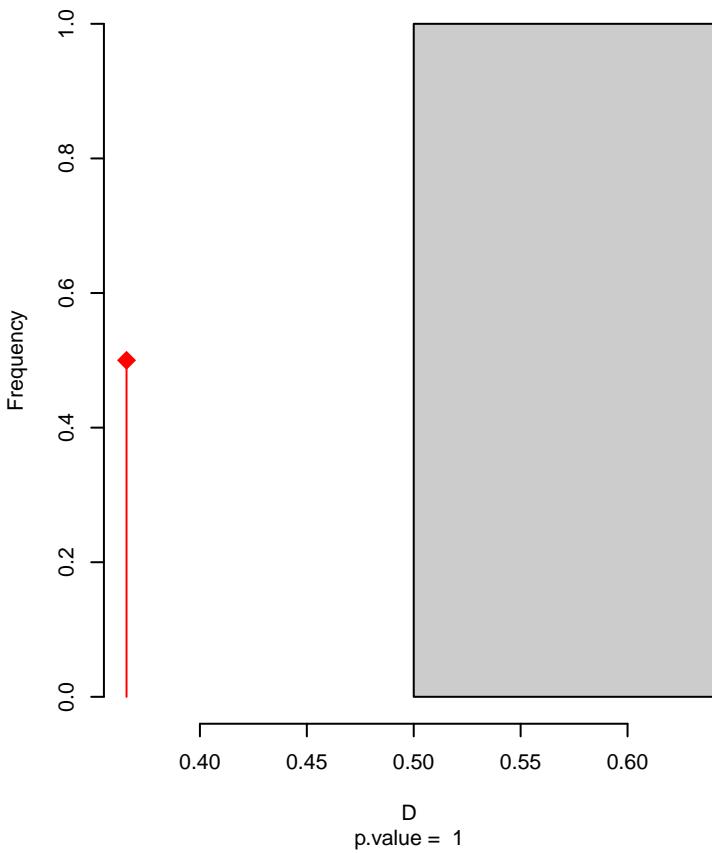
### Progne\_elegans seasonal overlap



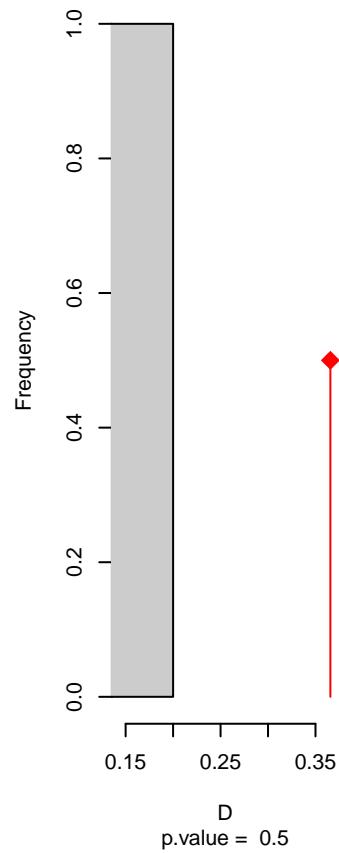
# Progne\_elegans seasonal overlap-hypo.br



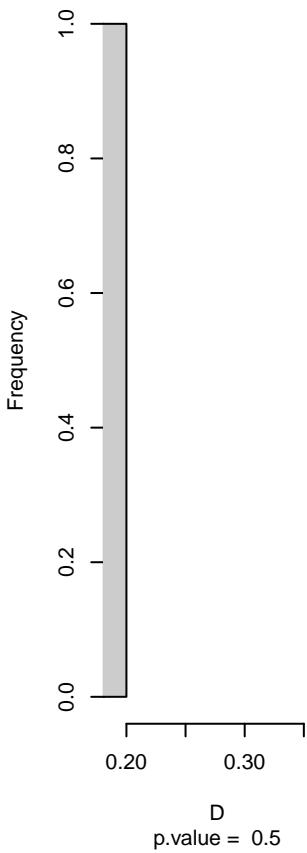
**Equivalency**



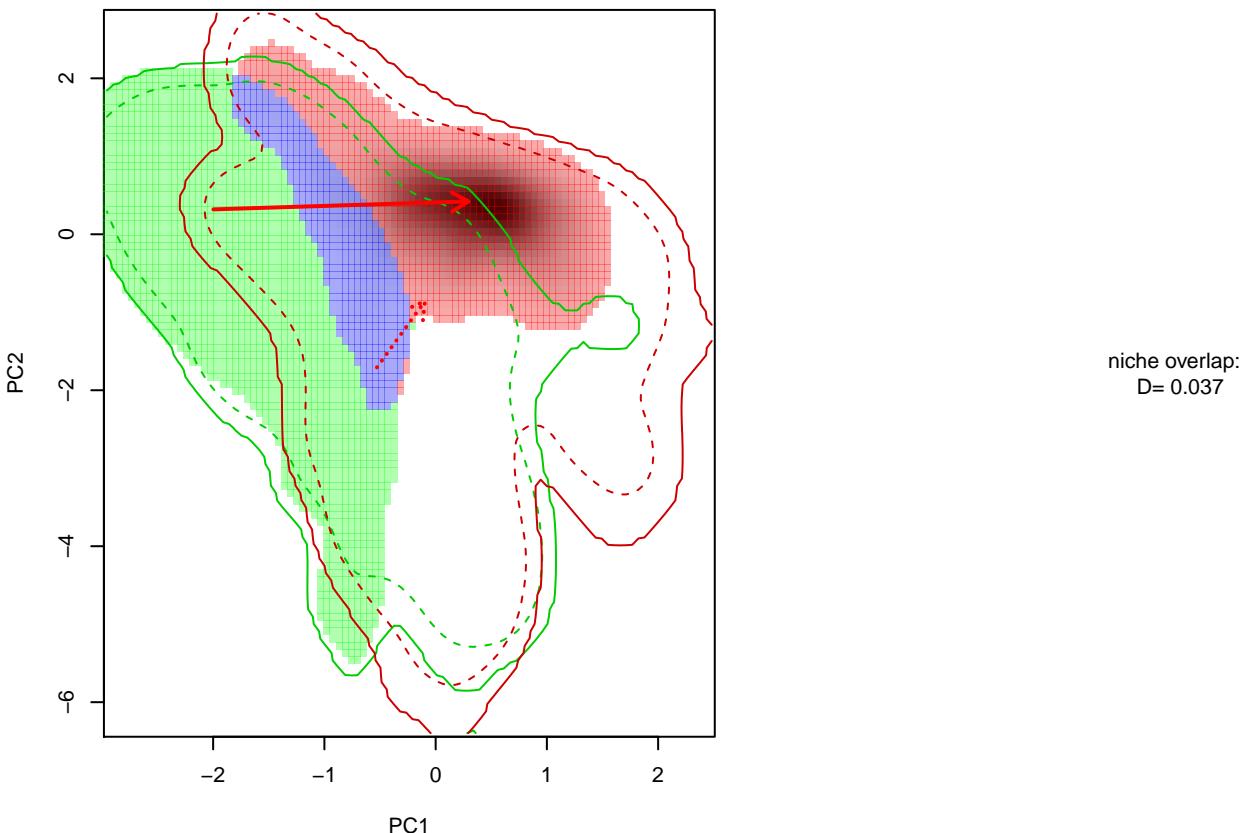
**Similarity 2→1**



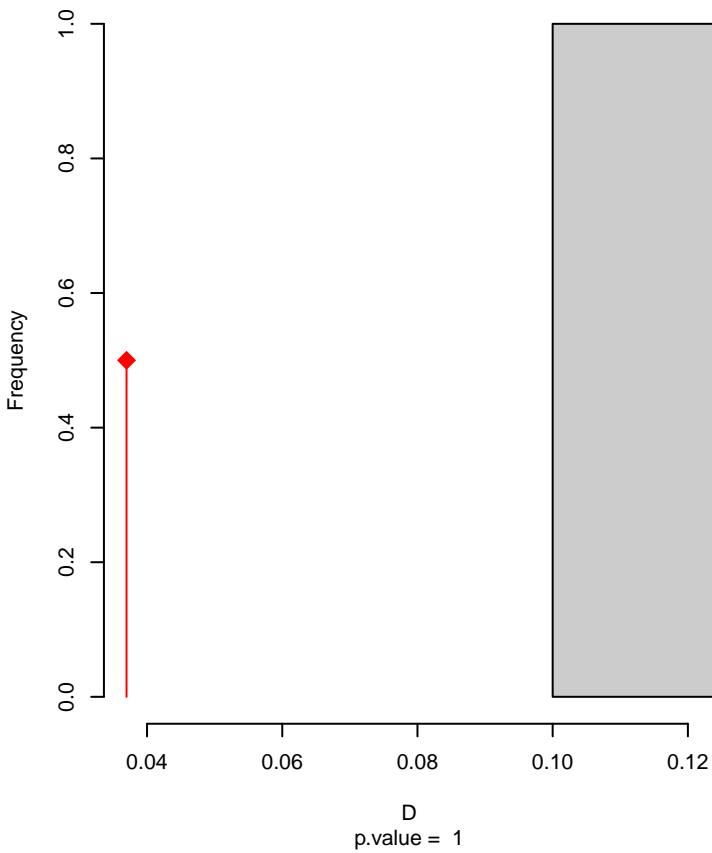
**Similarity 1→2**



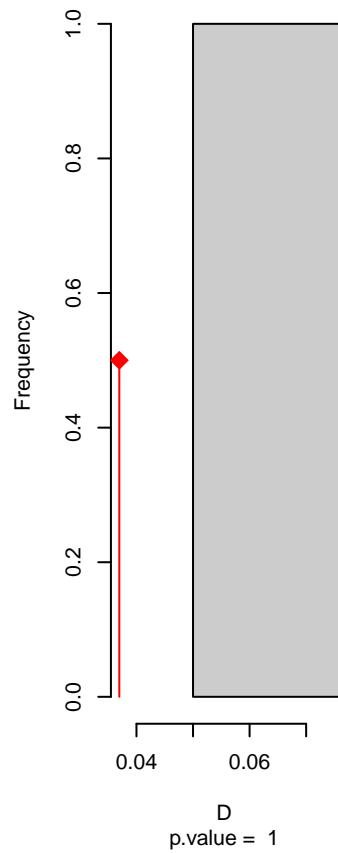
# Progne\_elegans seasonal overlap-hypo wi



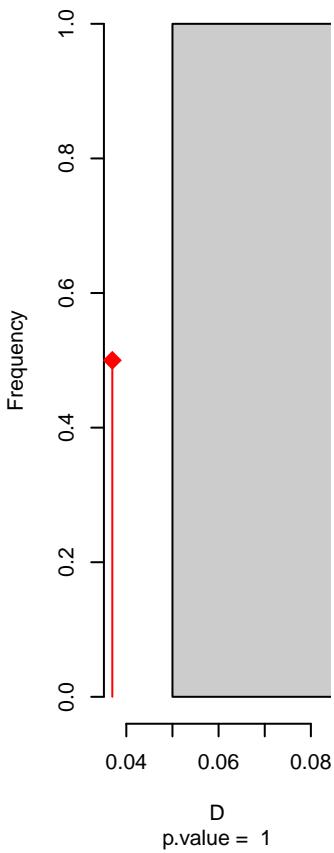
**Equivalency**



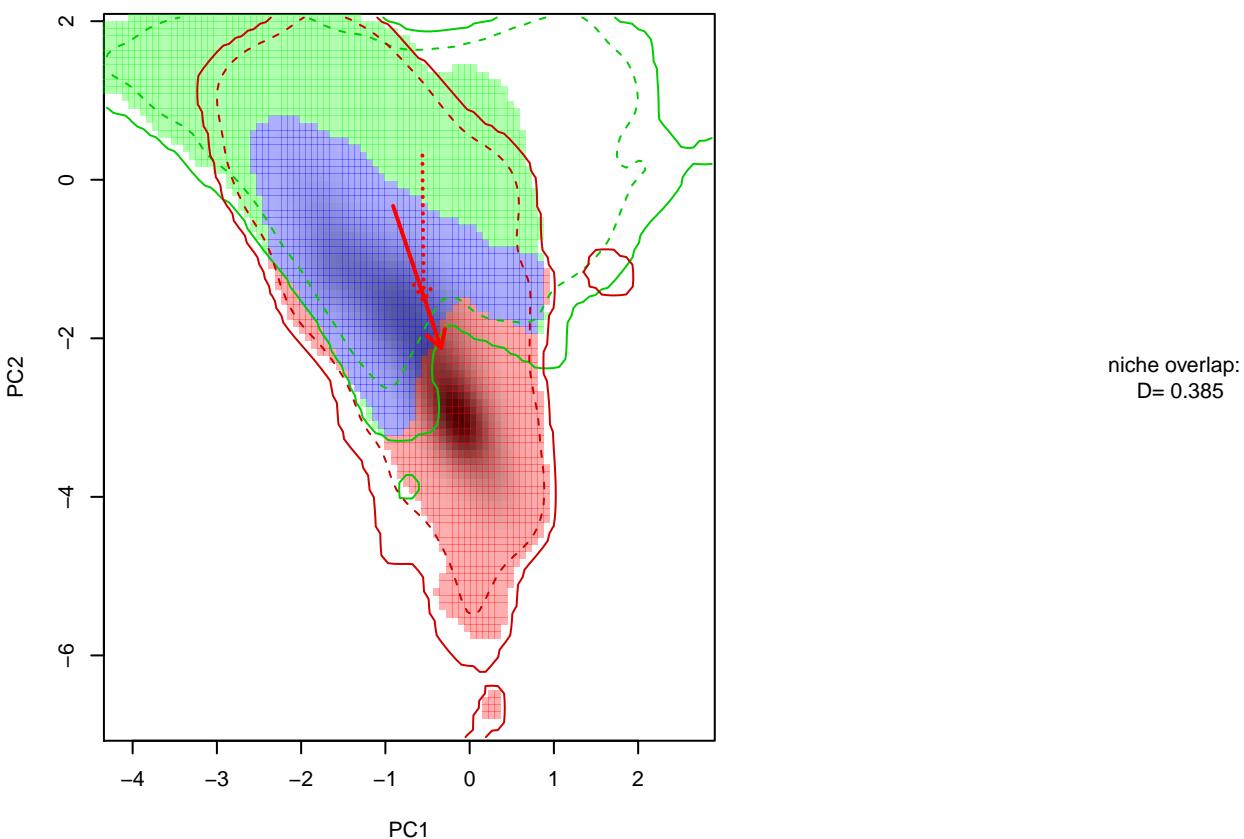
**Similarity 2→1**



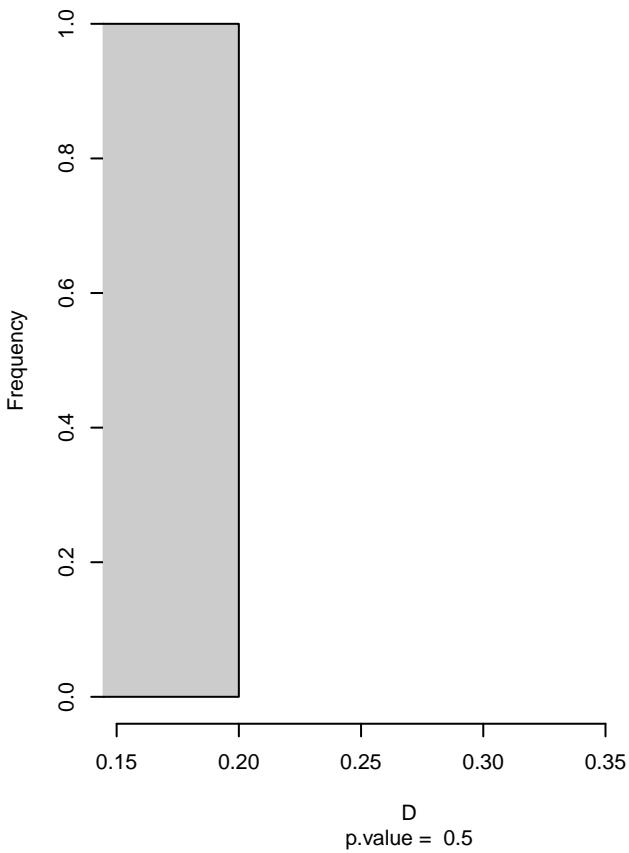
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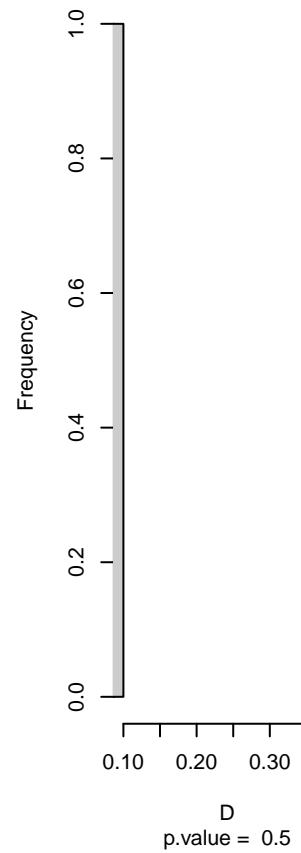
### Progne\_subis seasonal overlap



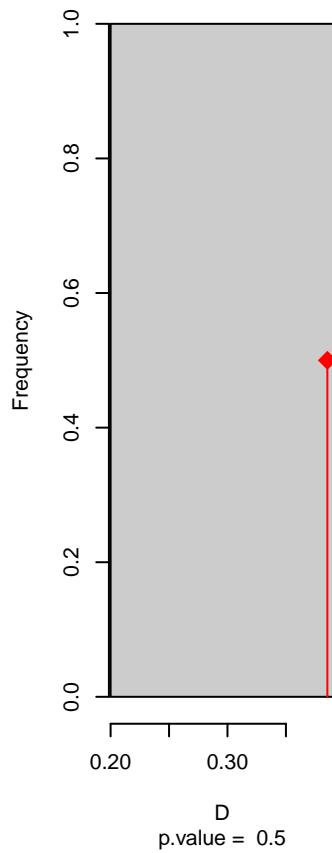
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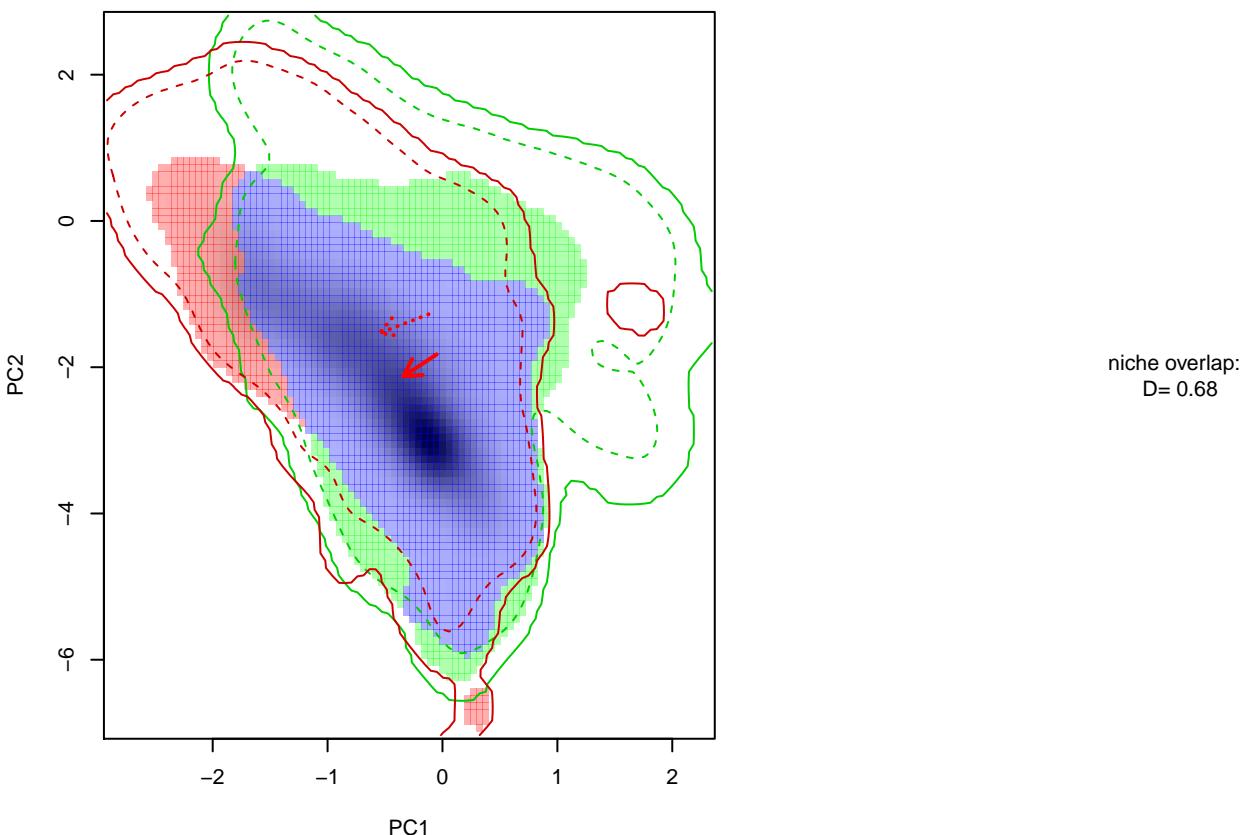
**Similarity 2→1**



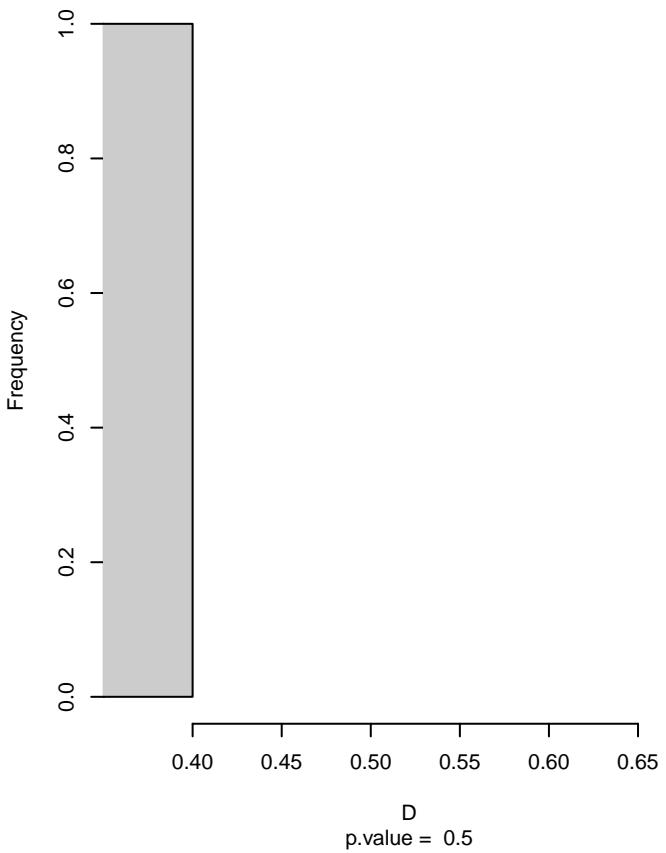
**Similarity 1→2**



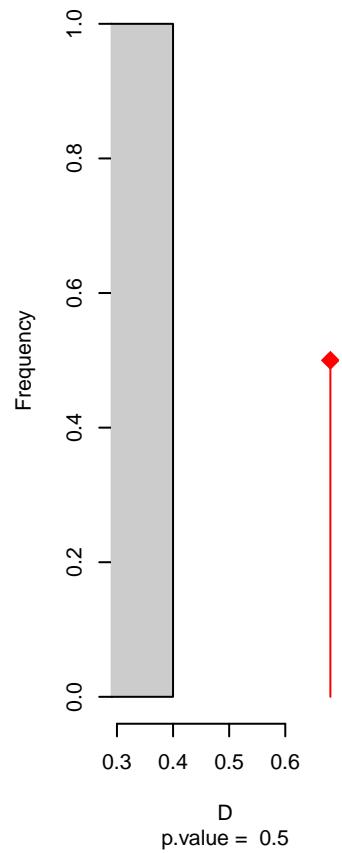
# Progne\_subis seasonal overlap-hypo.br



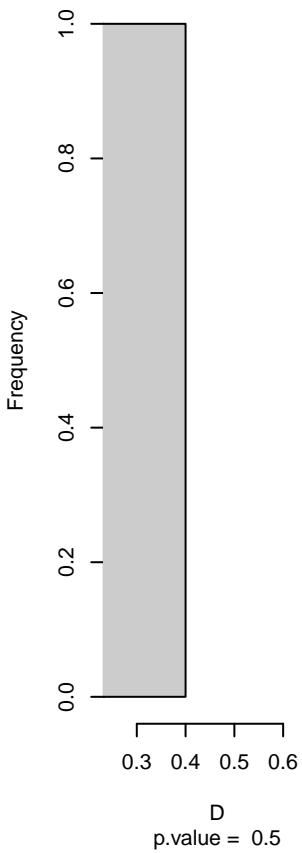
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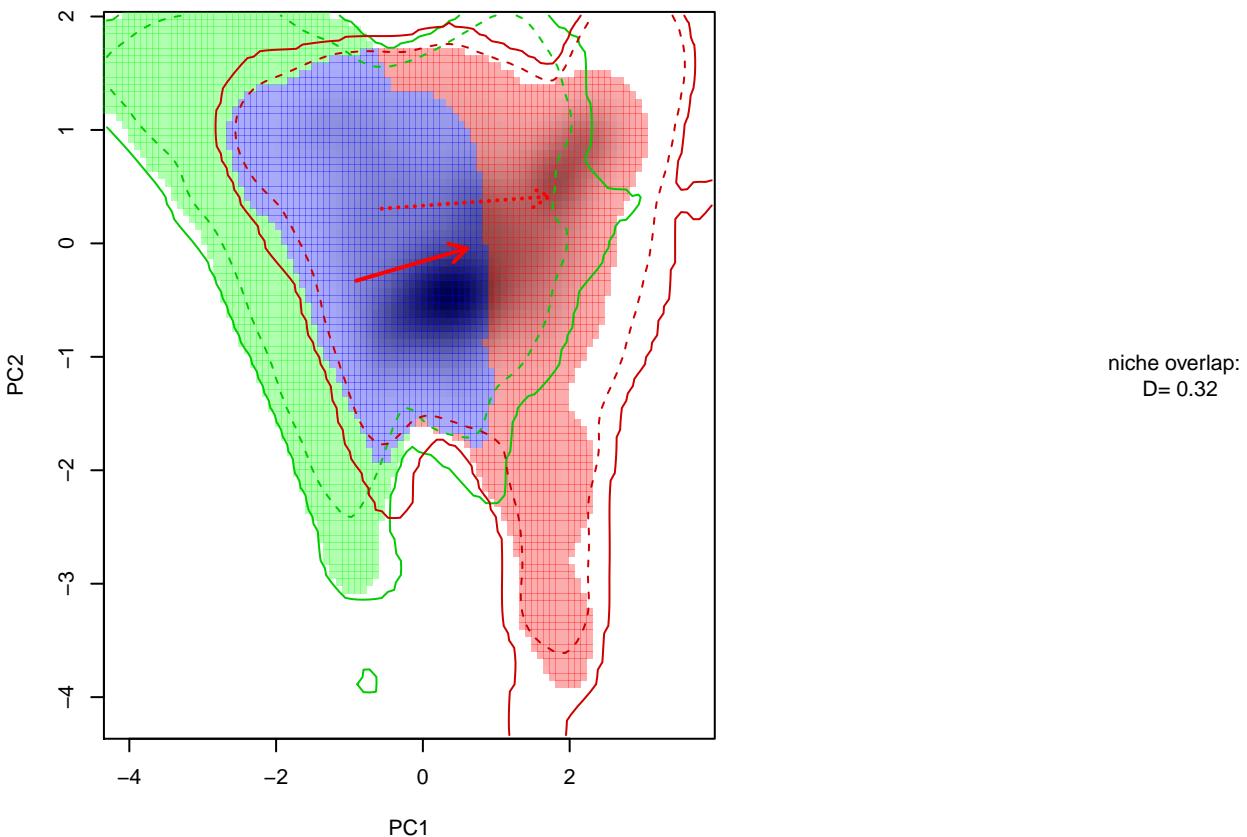
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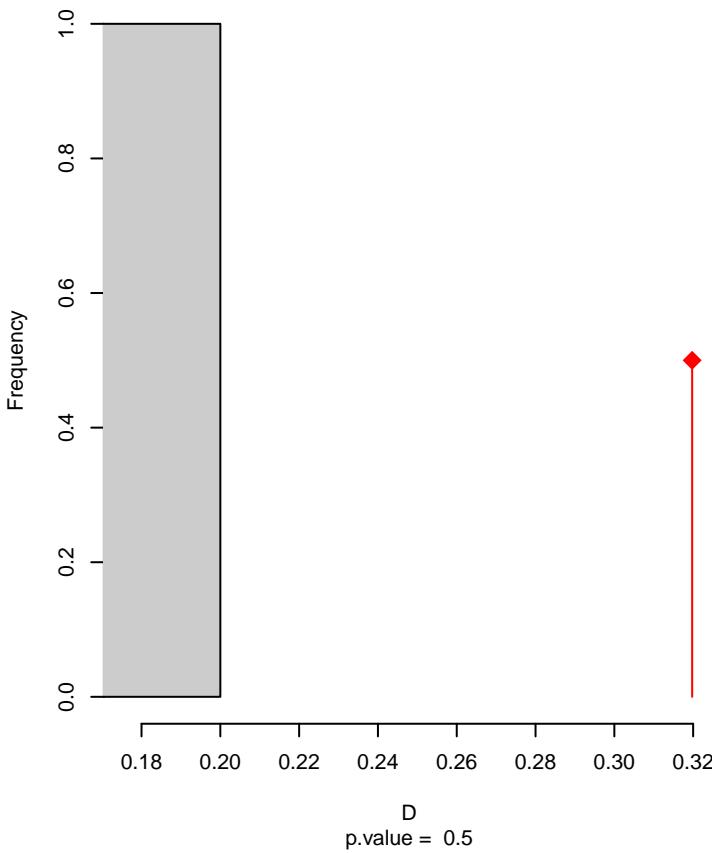
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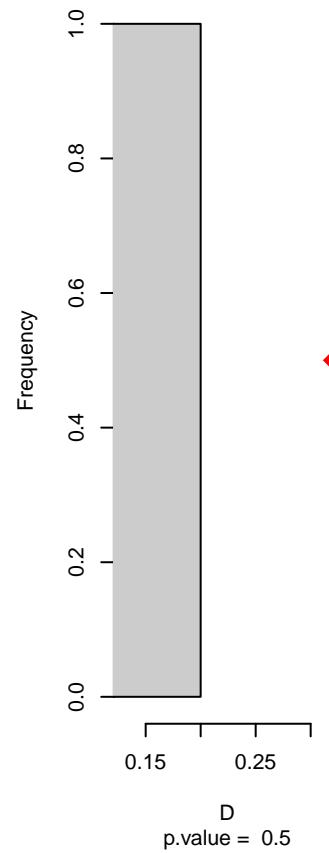
# Progne\_subis seasonal overlap-hypo wi



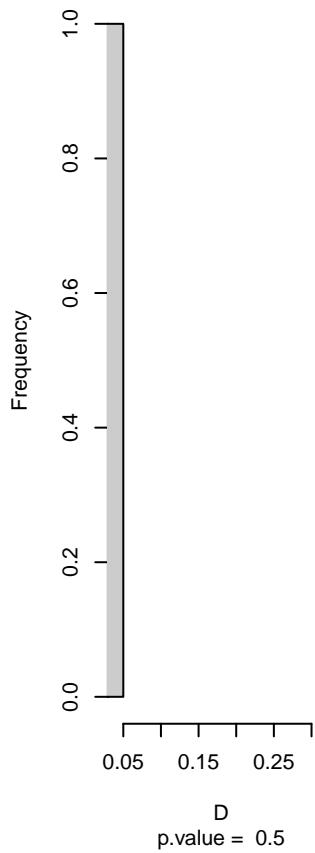
**Equivalency**



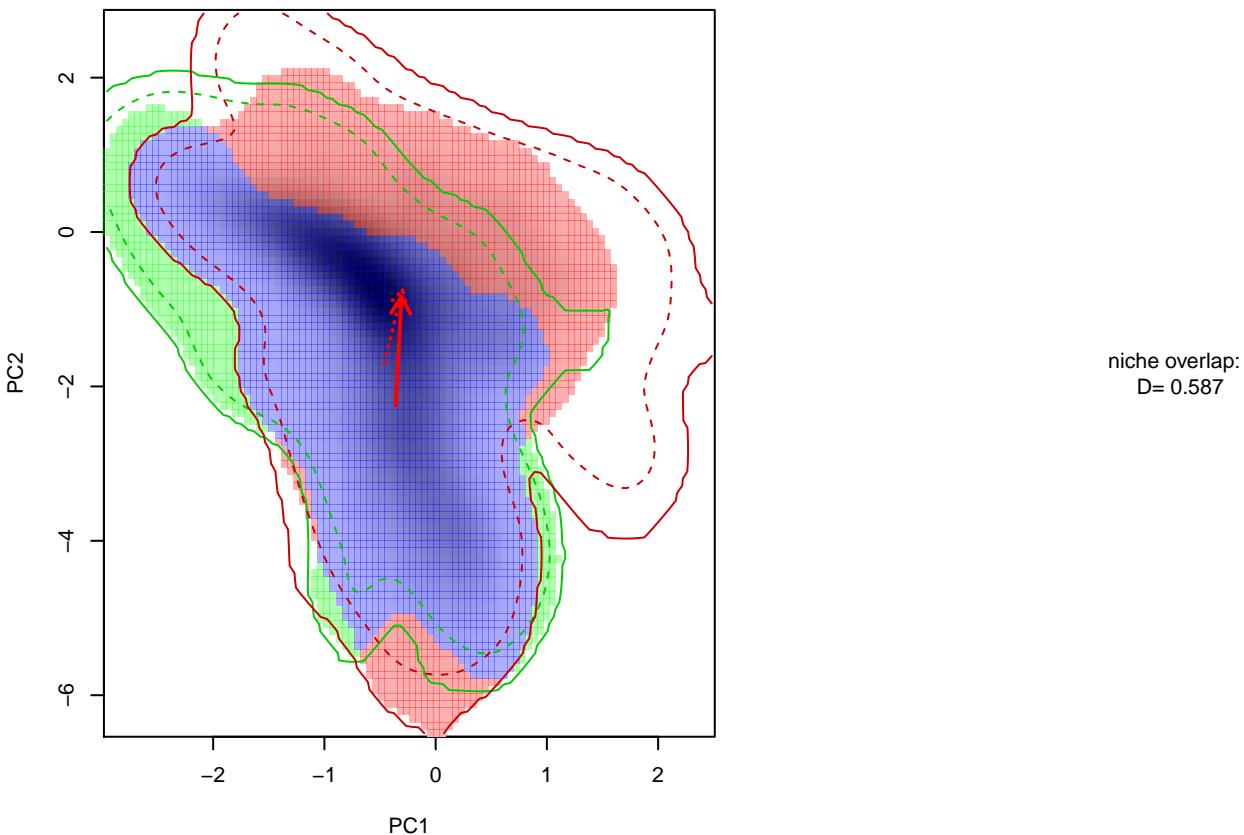
**Similarity 2→1**



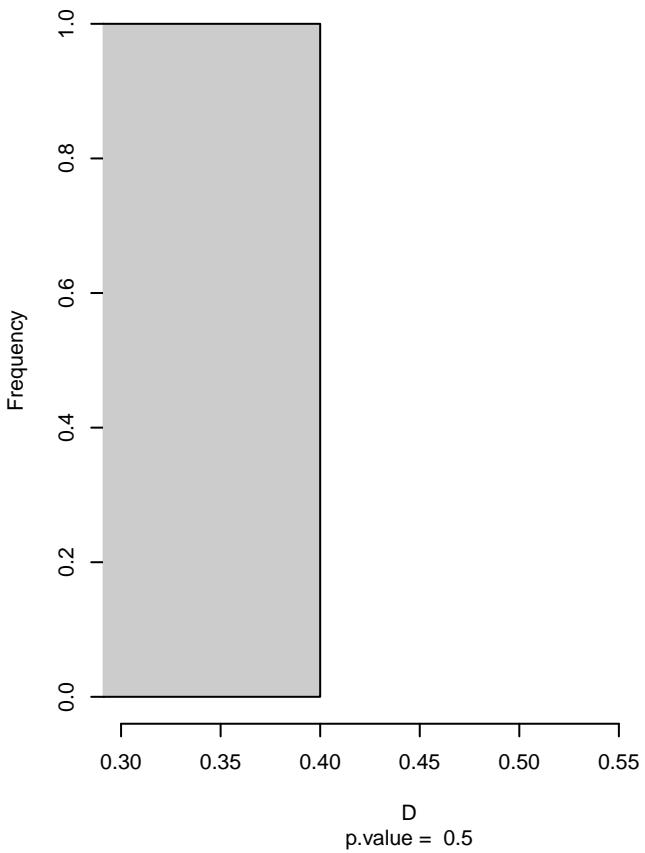
**Similarity 1→2**



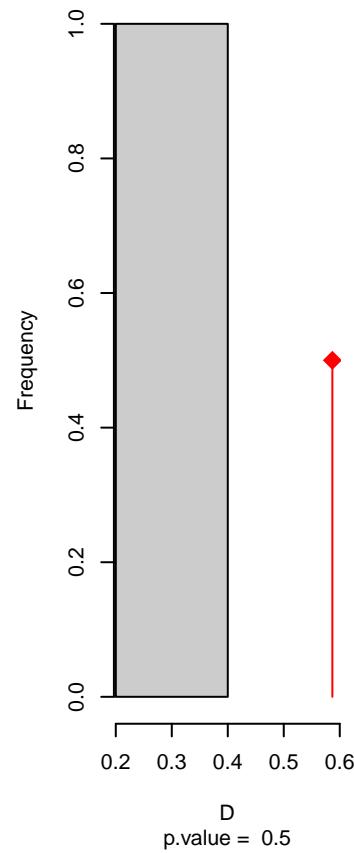
### Progne\_tapera seasonal overlap



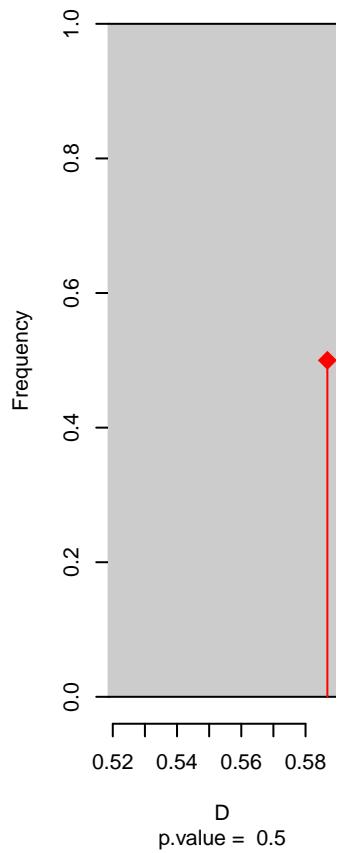
**Equivalency**



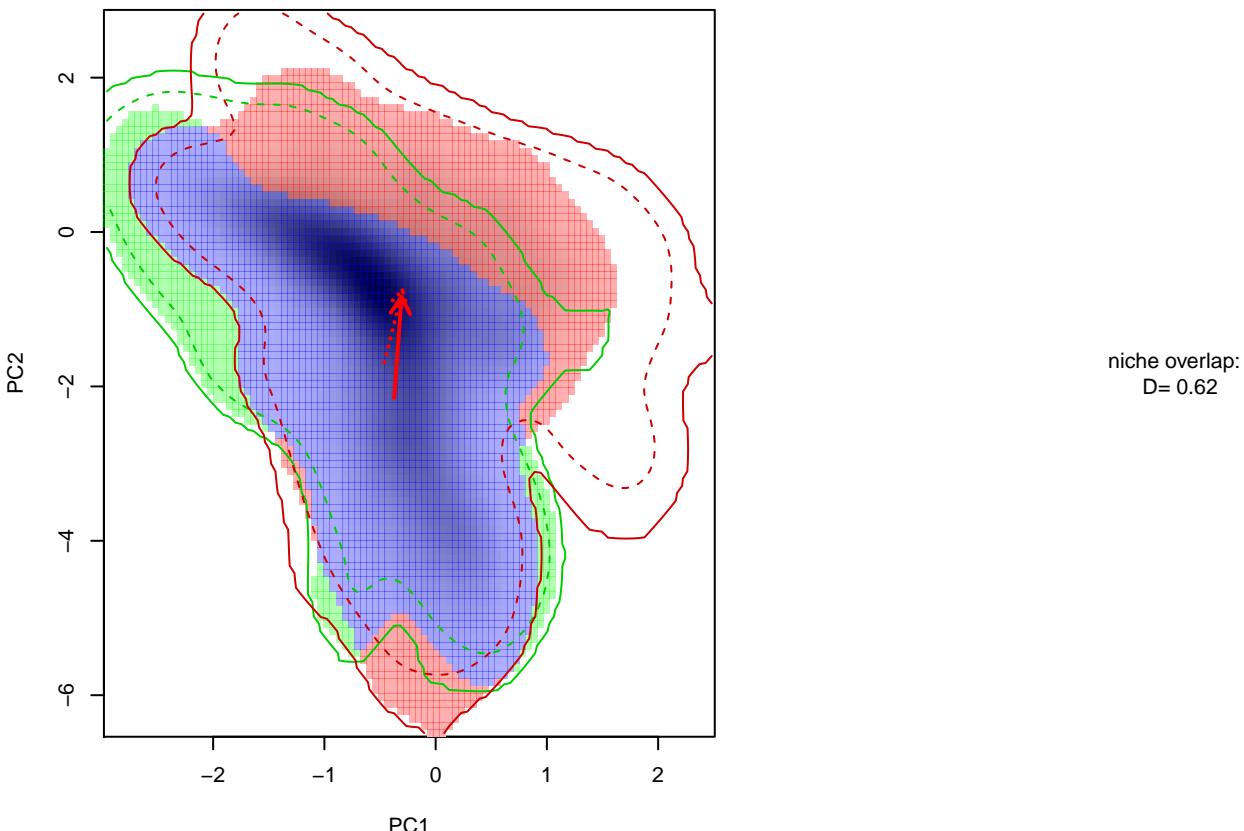
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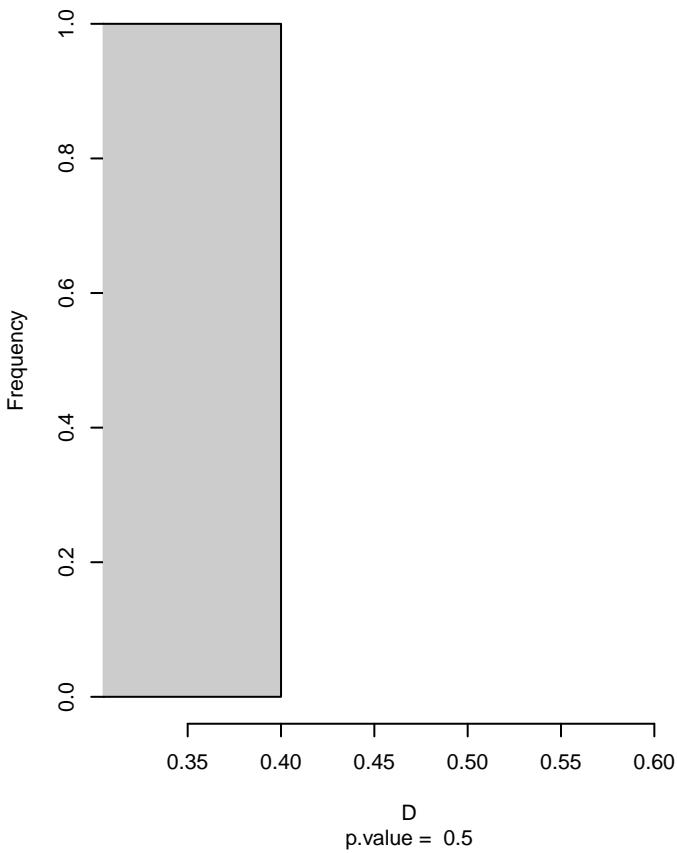
**Similarity 1→2**



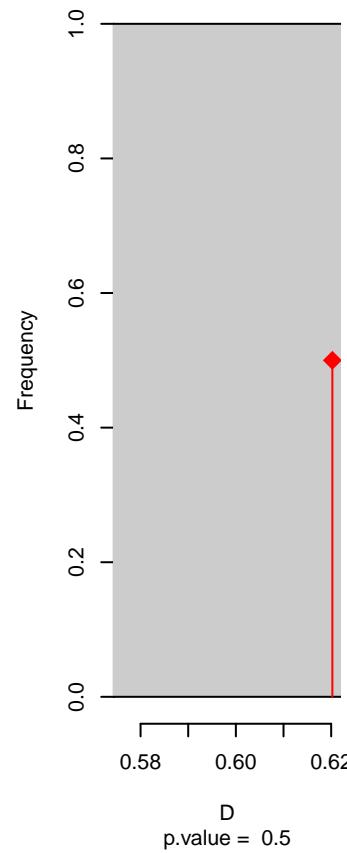
# Progne\_tapera seasonal overlap-hypo.br



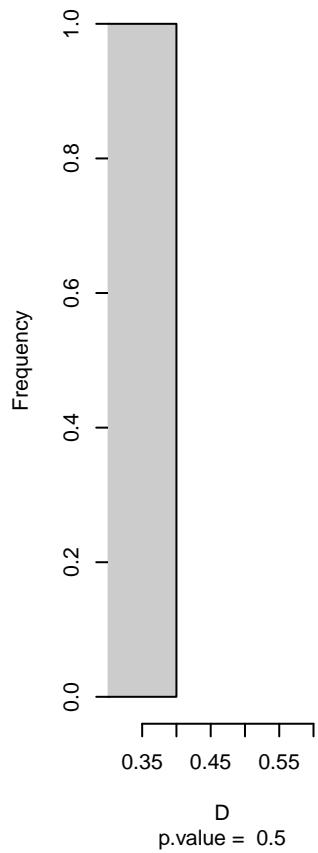
**Equivalency**



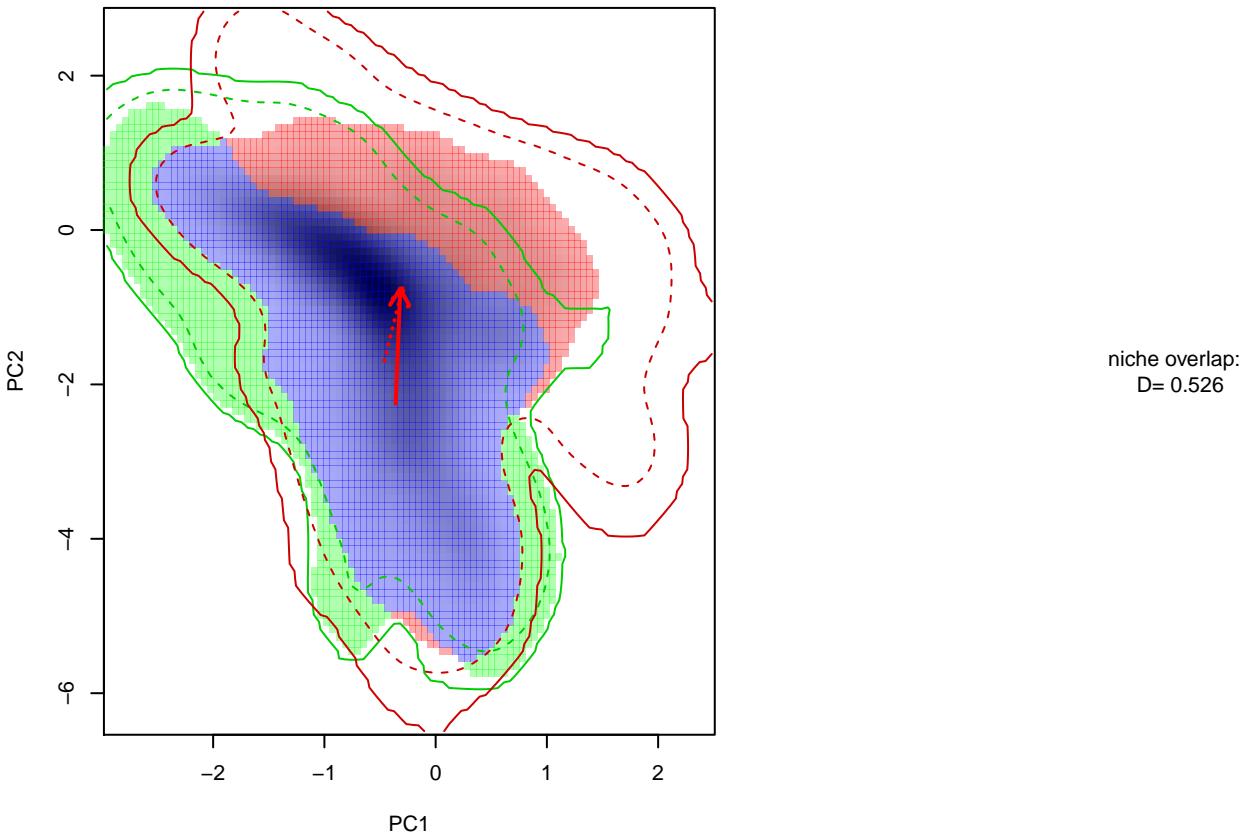
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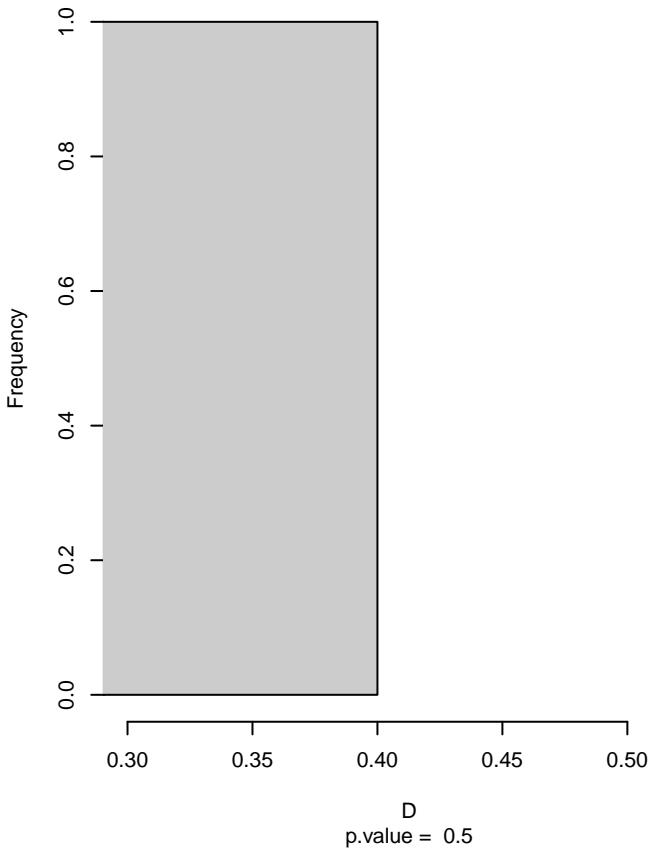
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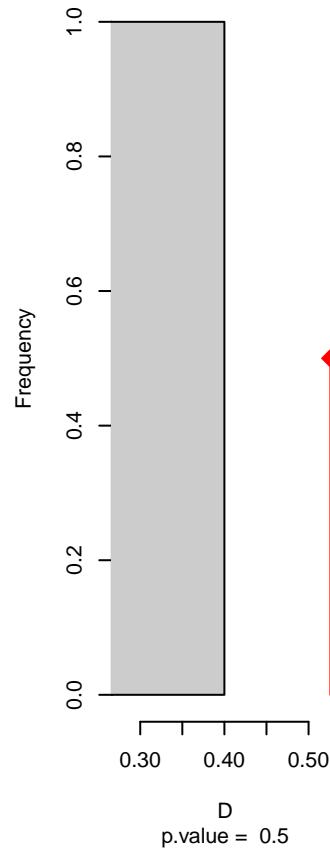
# Progne\_tapera seasonal overlap-hypo wi



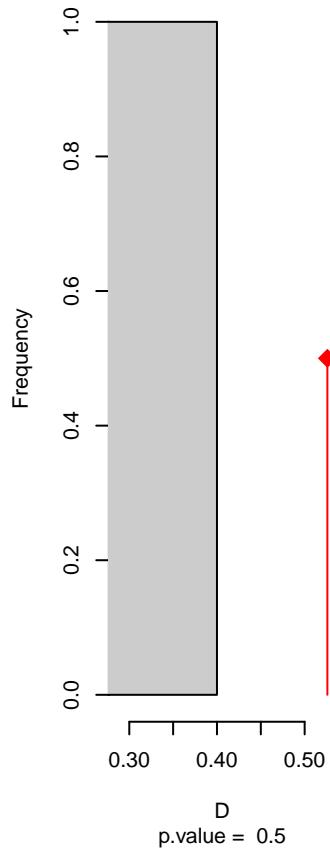
**Equivalency**



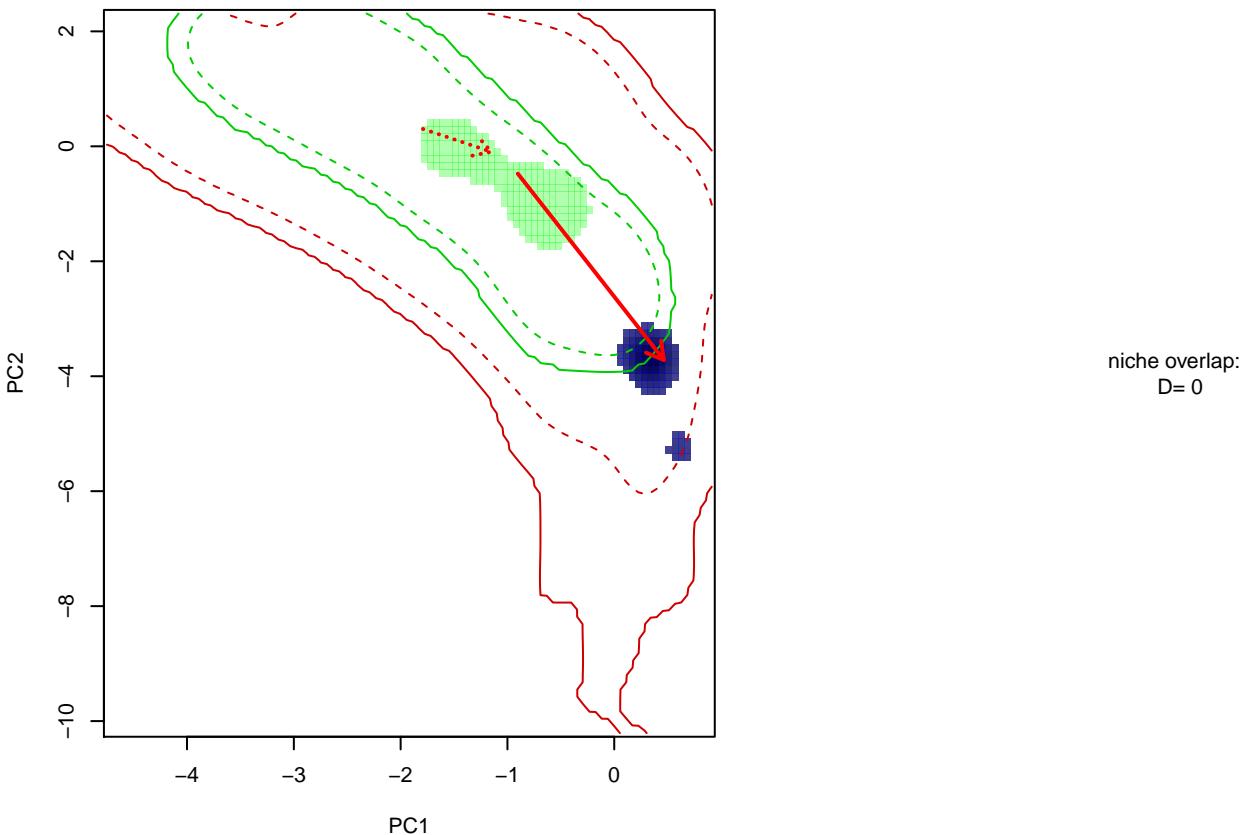
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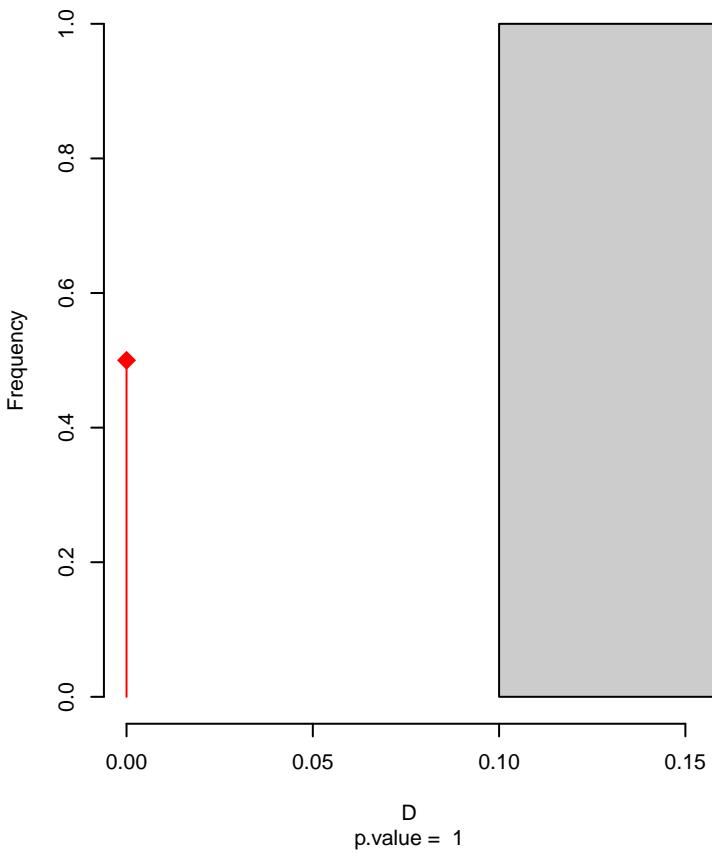
**Similarity 1→2**



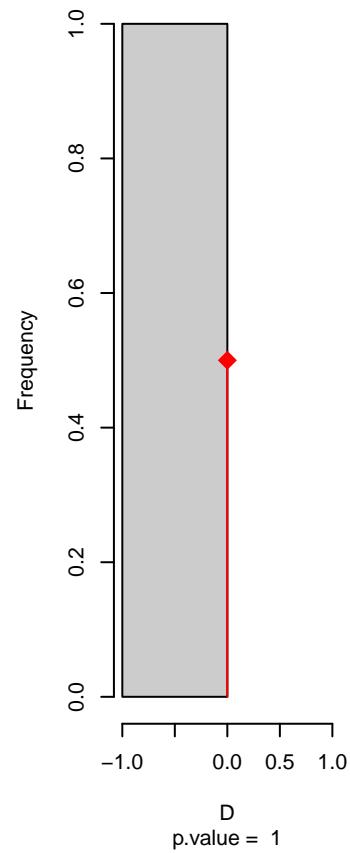
### *Psalidoprocne\_fuliginosa* seasonal overlap



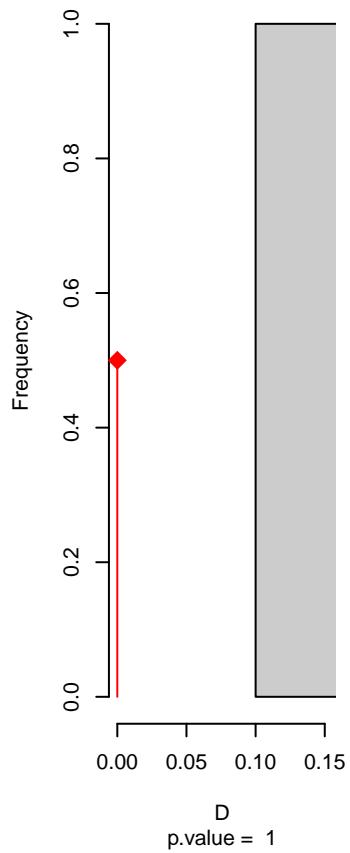
Equivalency



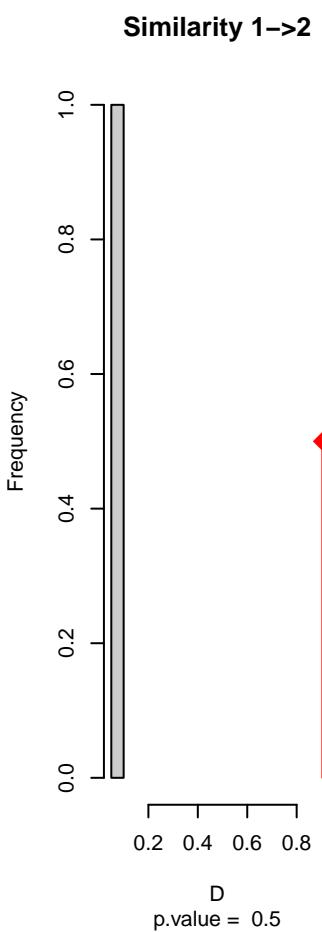
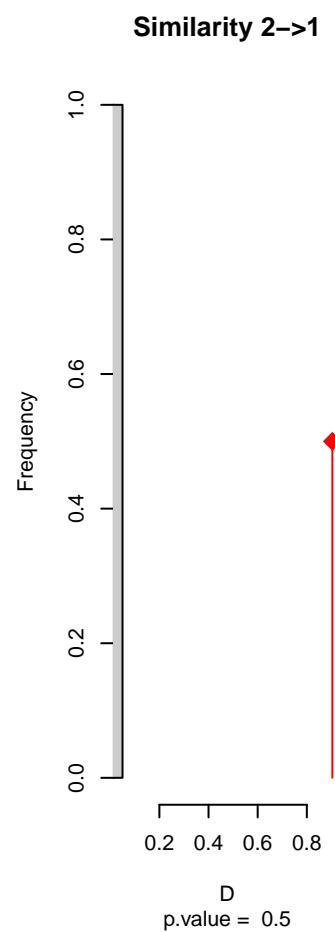
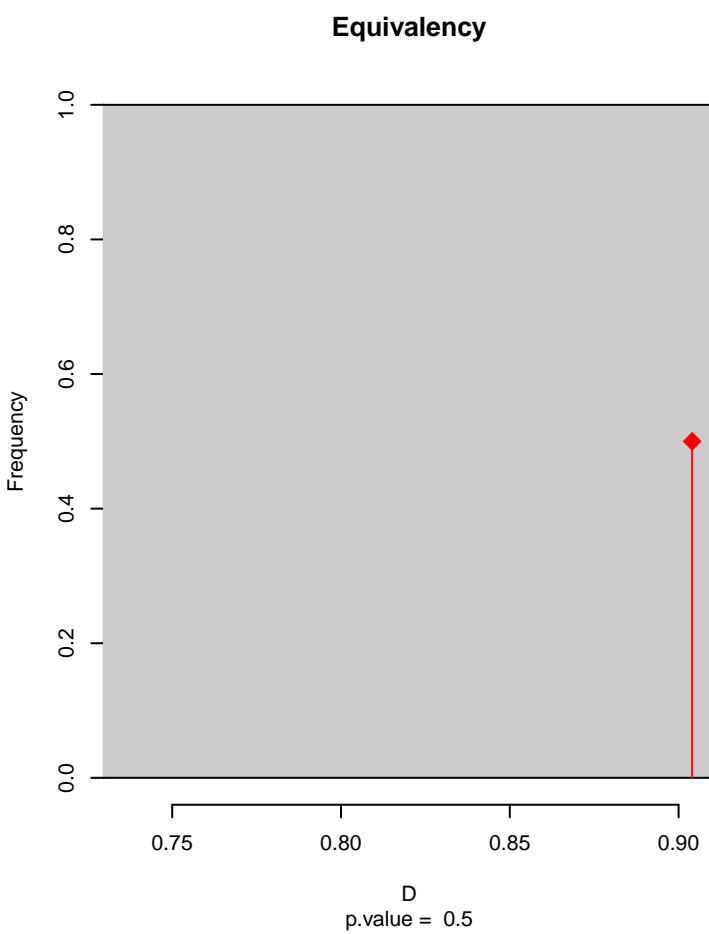
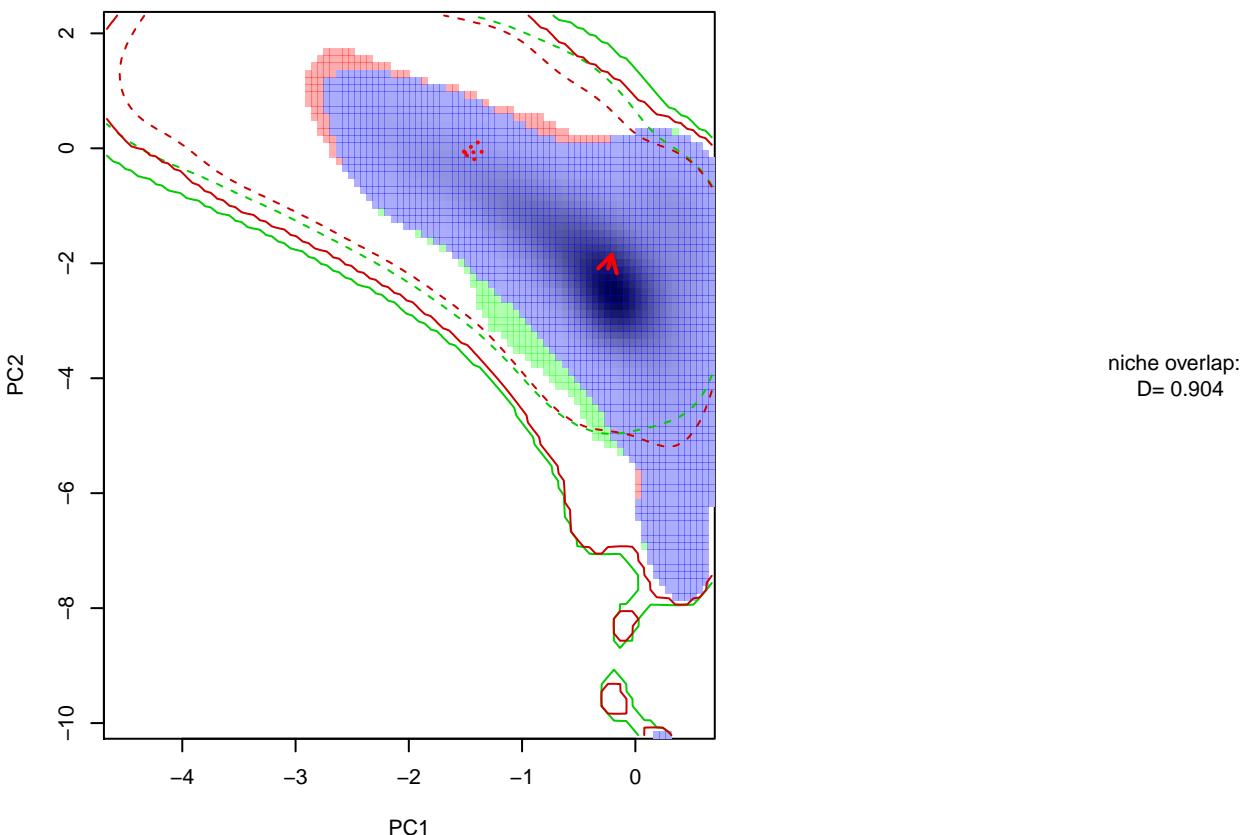
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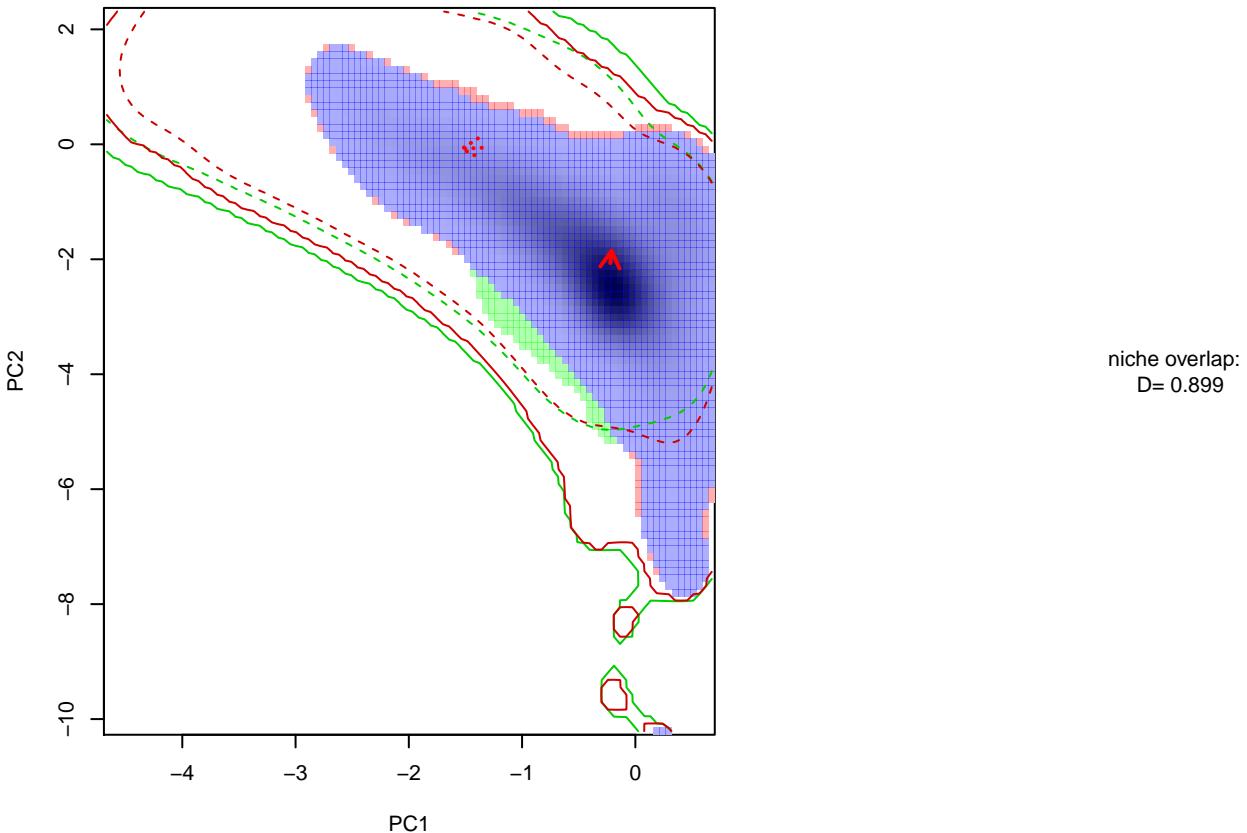
Similarity 1→2



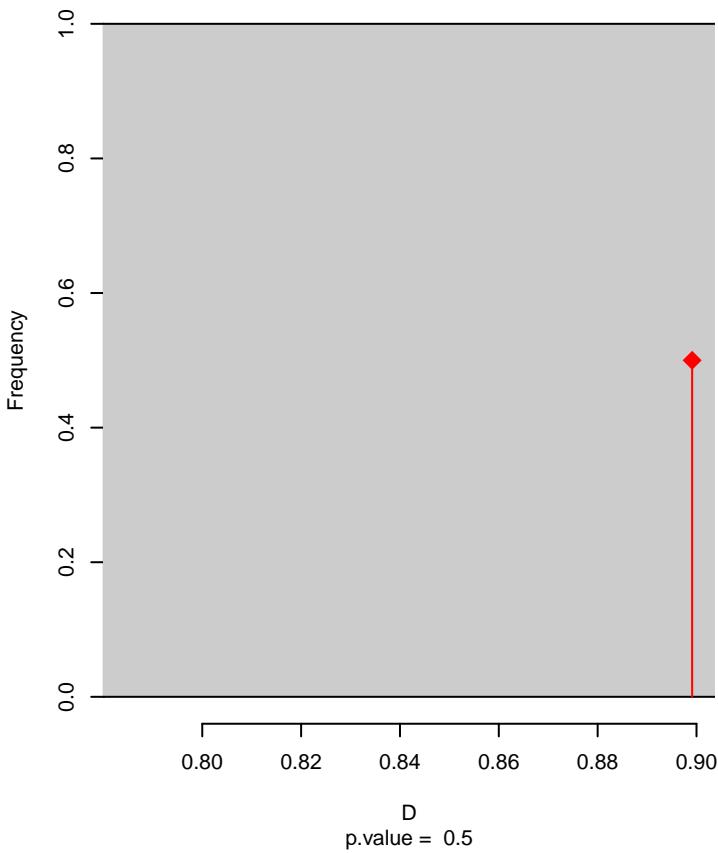
### *Psalidoprocne nitens* seasonal overlap



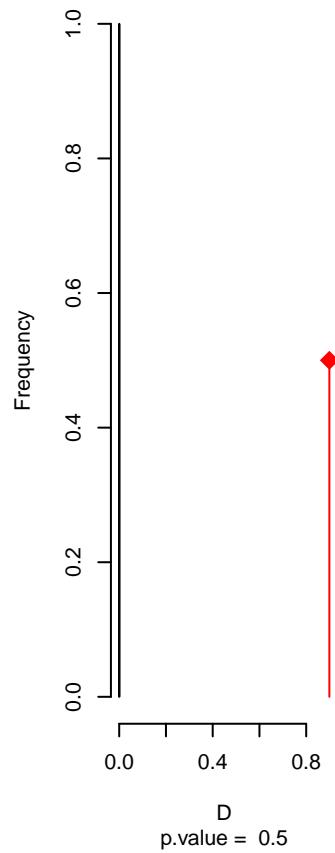
# *Psalidoprocne nitens* seasonal overlap-hypo.br



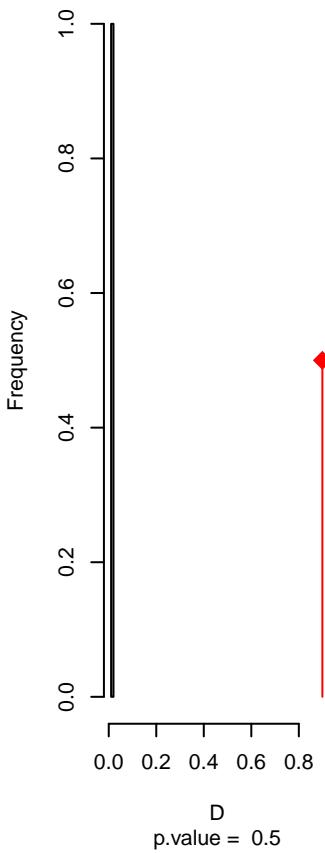
Equivalency



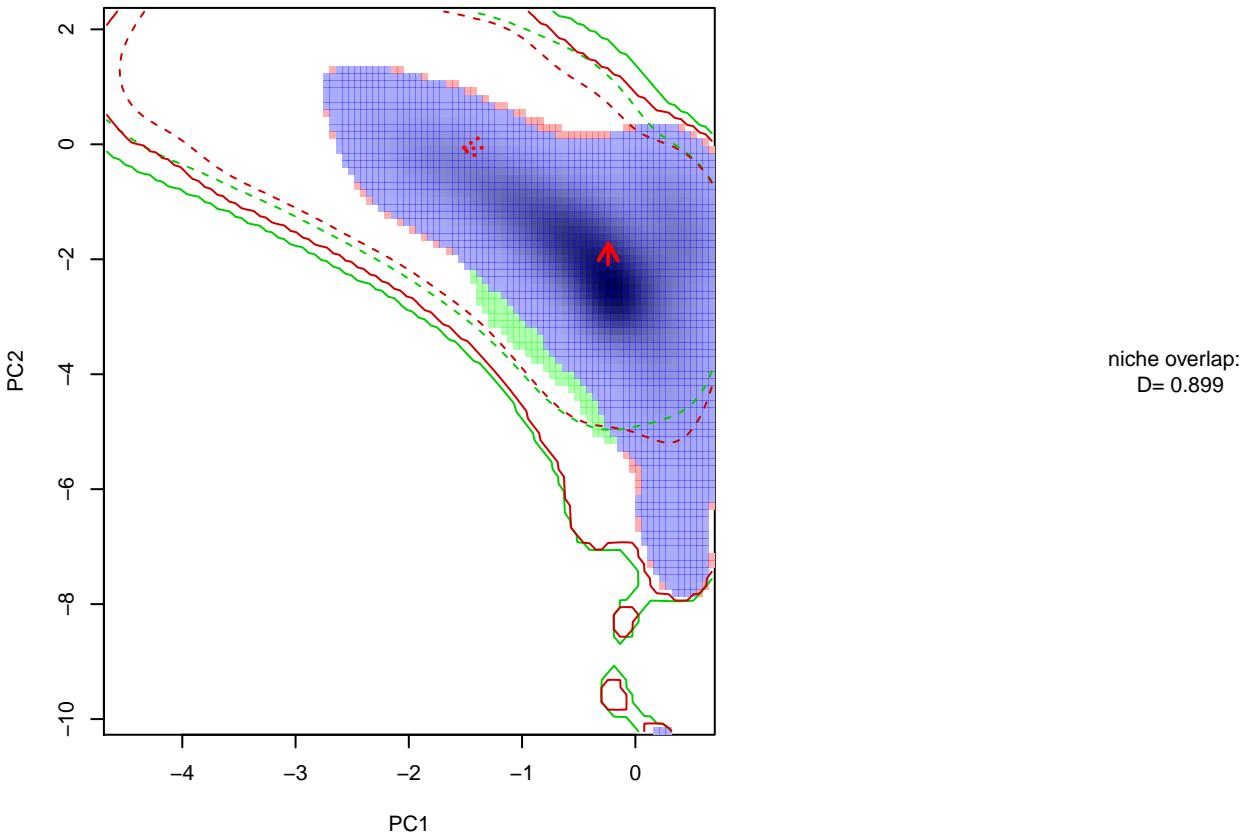
Similarity 2→1



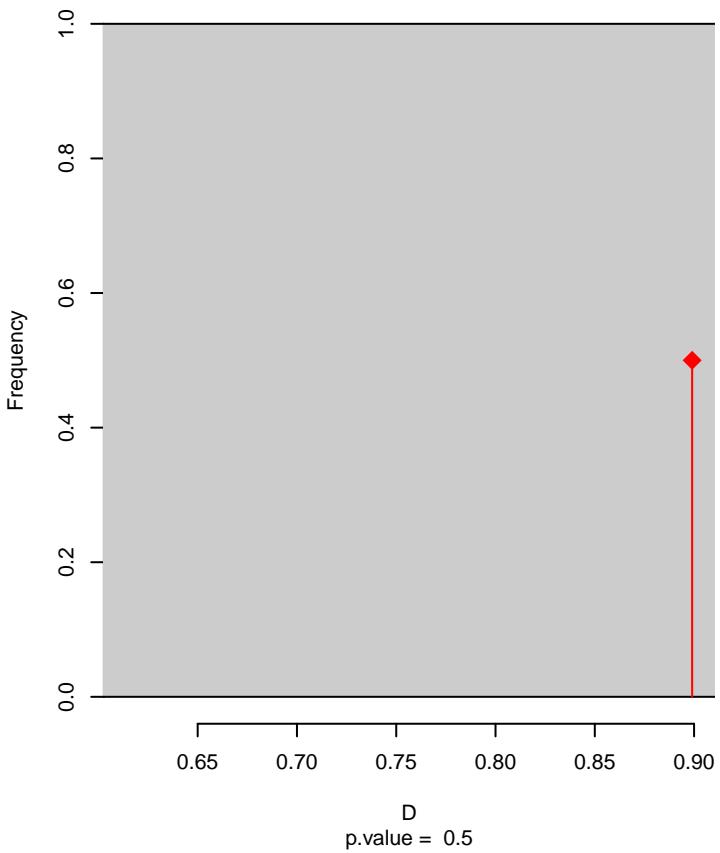
Similarity 1→2



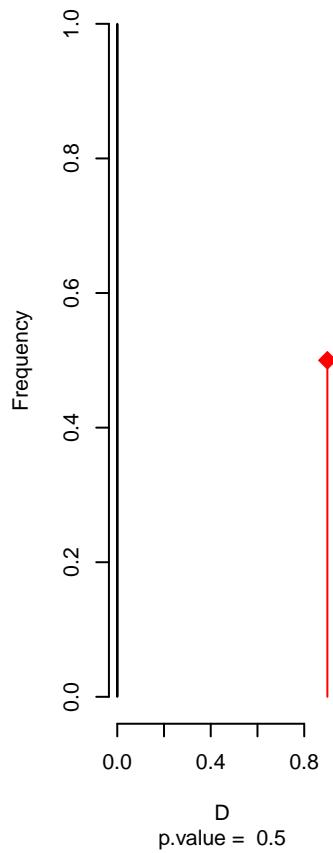
# *Psalidoprocne nitens* seasonal overlap-hypo wi



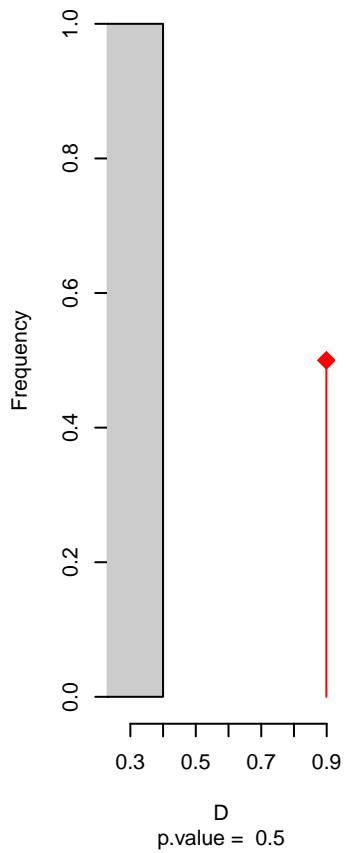
Equivalency



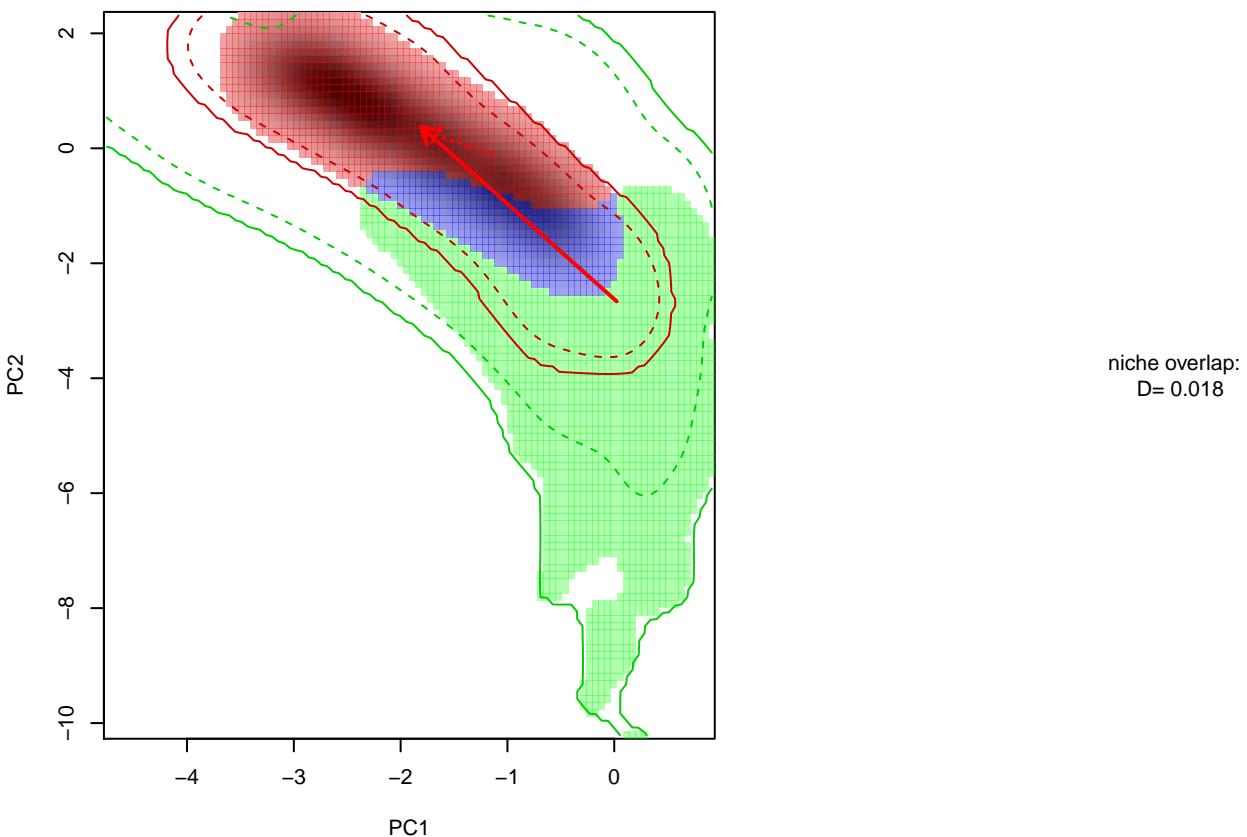
Similarity 2→1



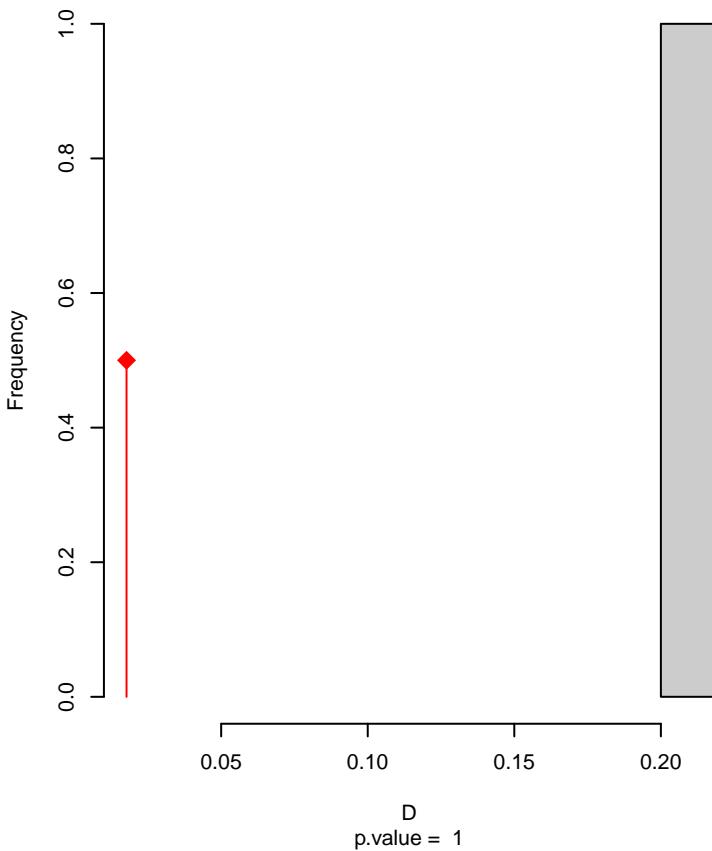
Similarity 1→2



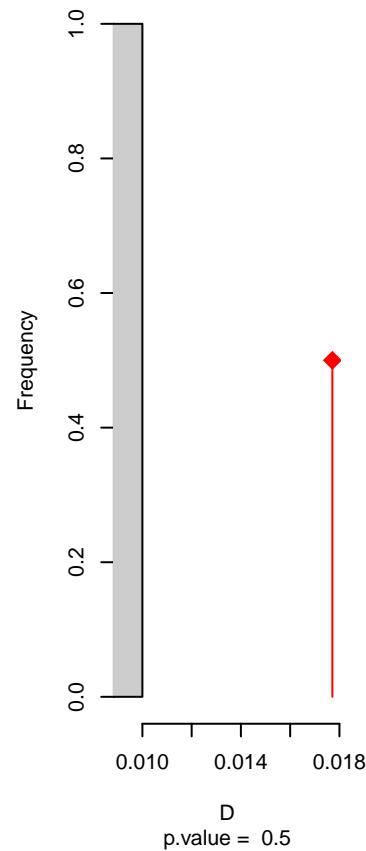
### *Psalidoprocne obscura* seasonal overlap



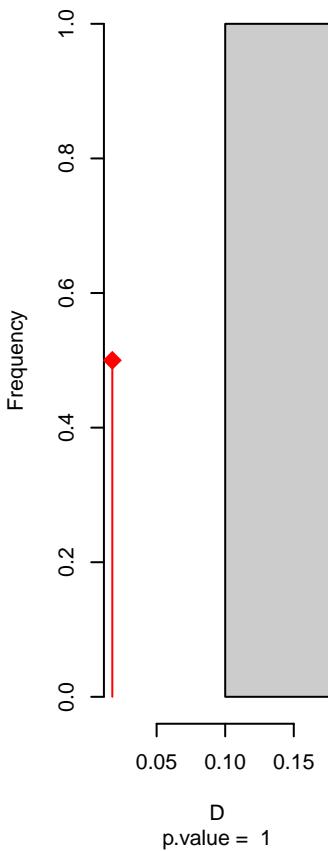
Equivalency



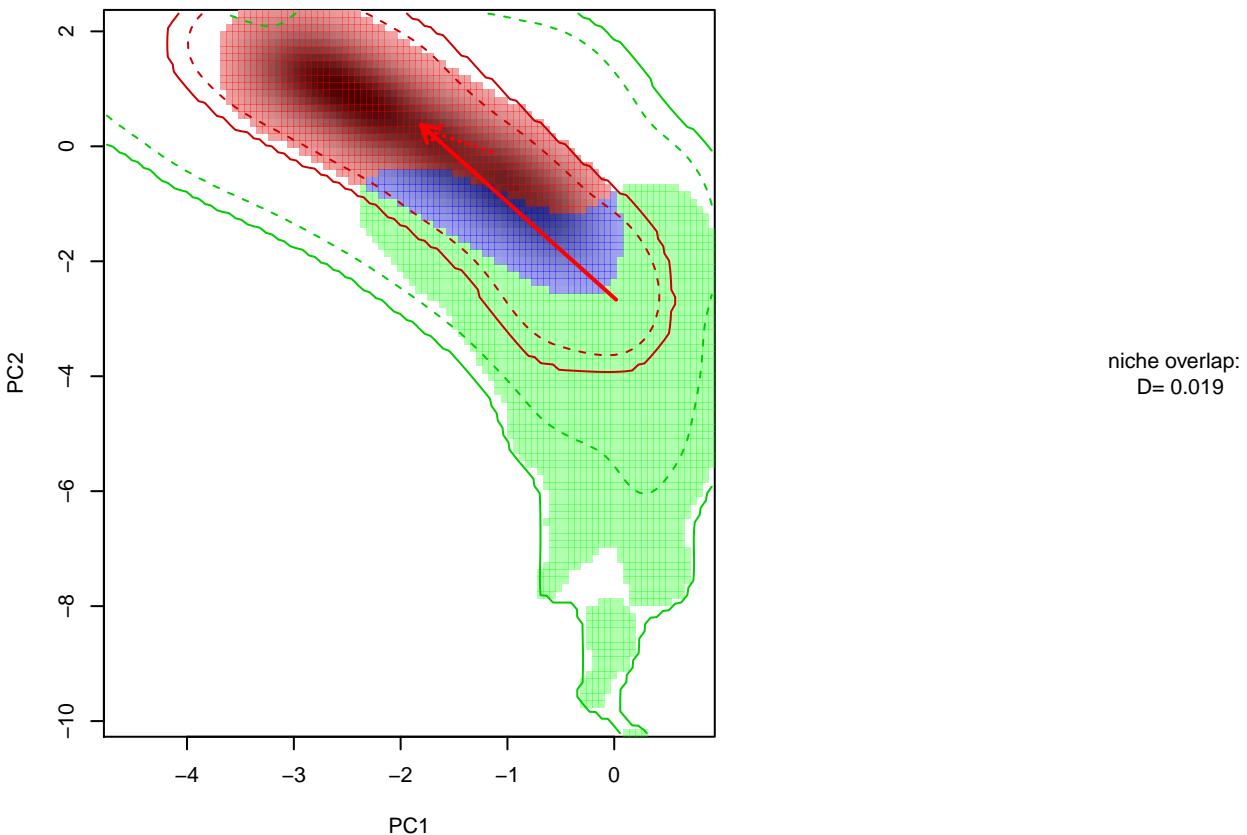
Similarity 2→1



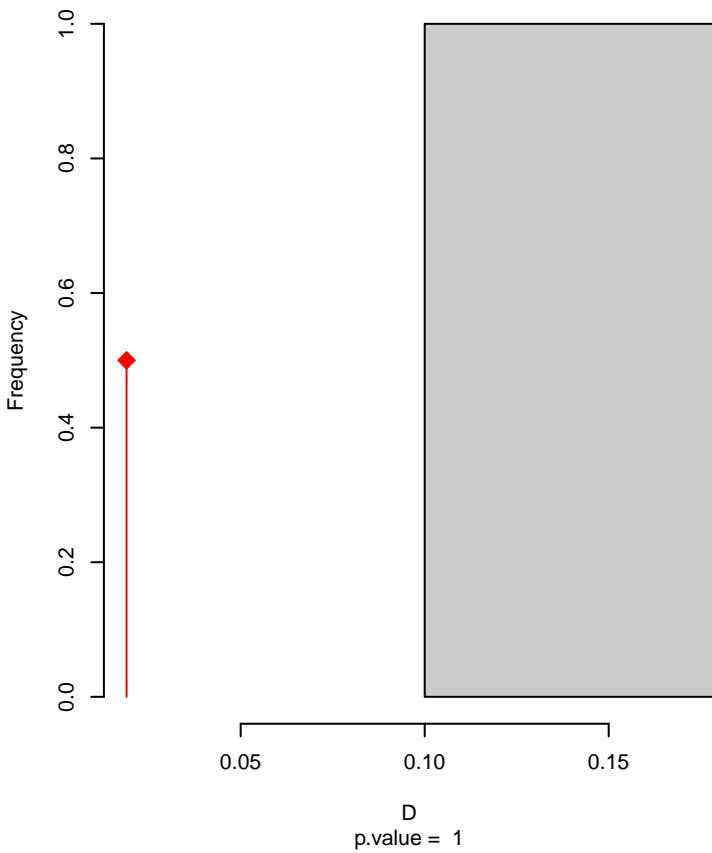
Similarity 1→2



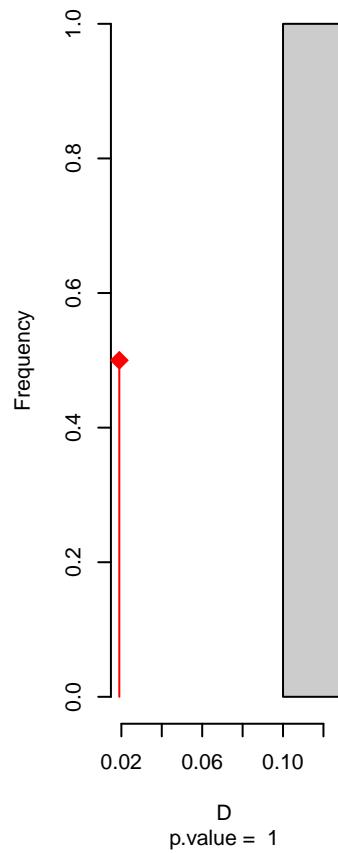
***Psalidoprocne obscura* seasonal overlap-hypo.br**



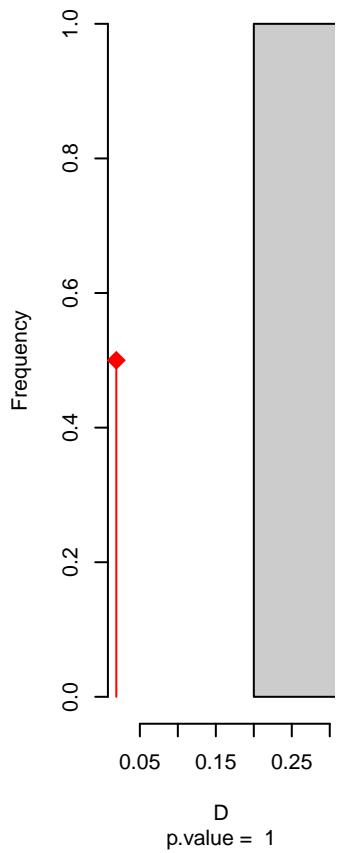
**Equivalency**



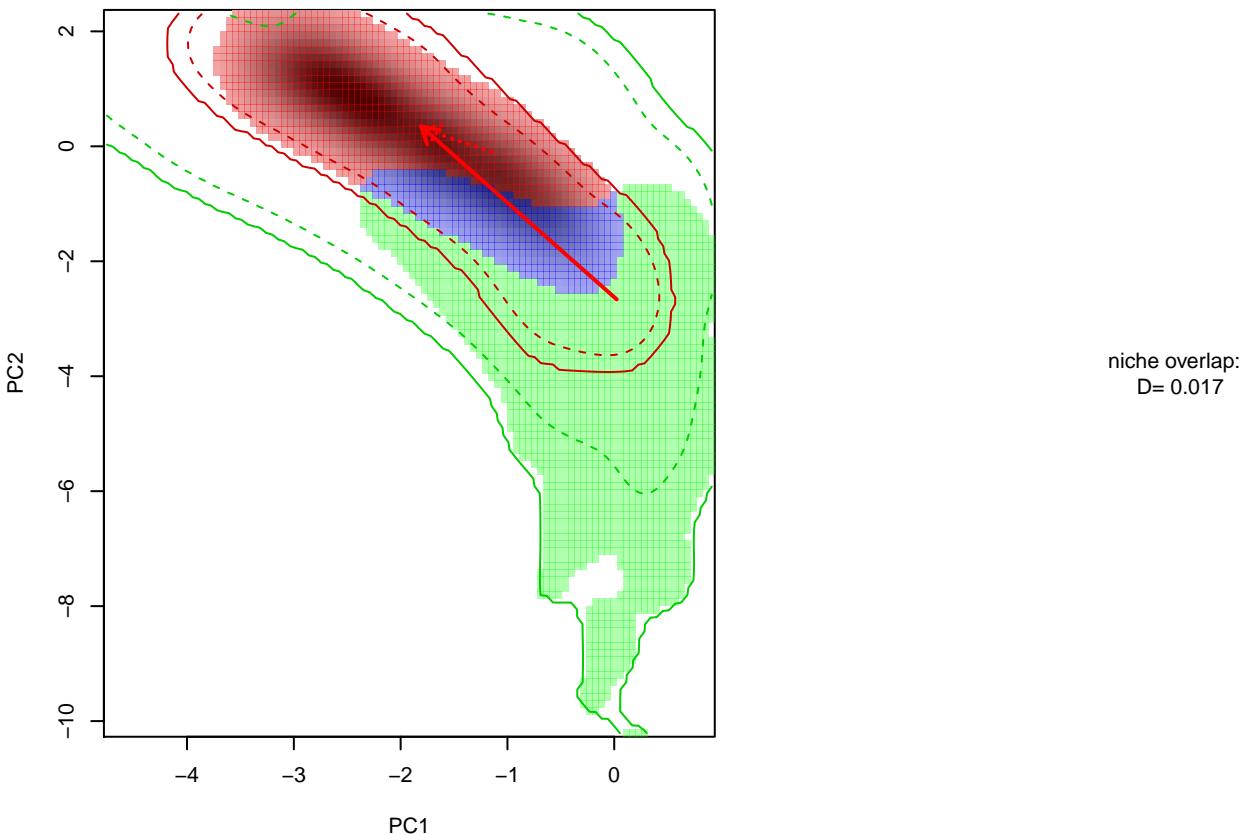
**Similarity 2→1**



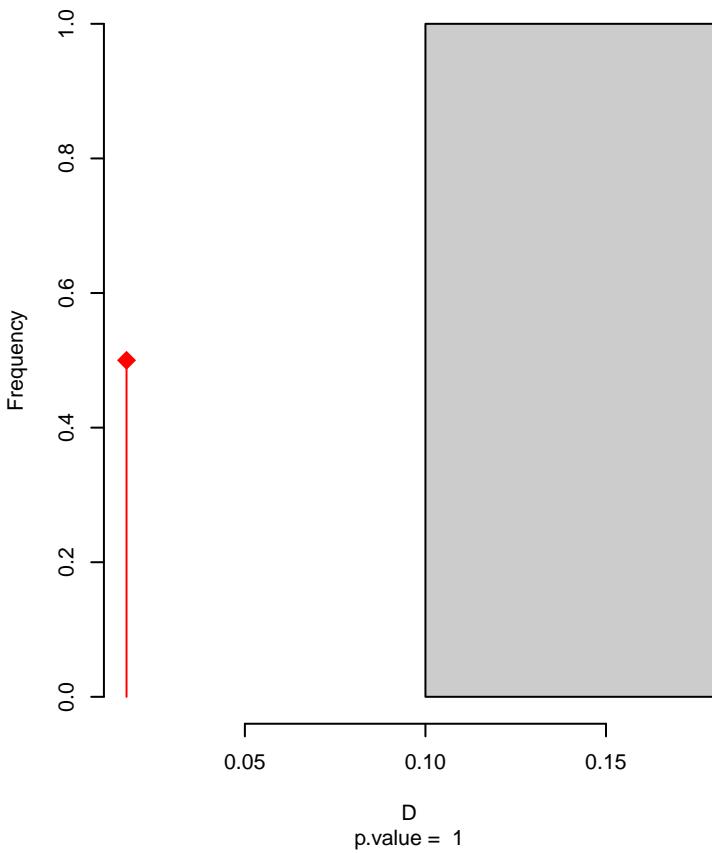
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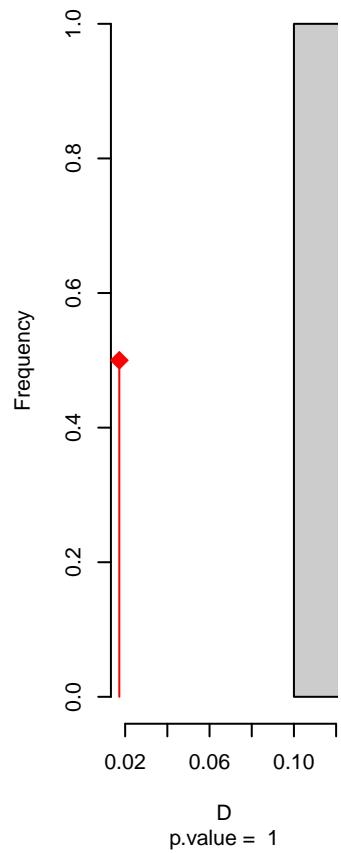
# *Psalidoprocne obscura* seasonal overlap-hypo wi



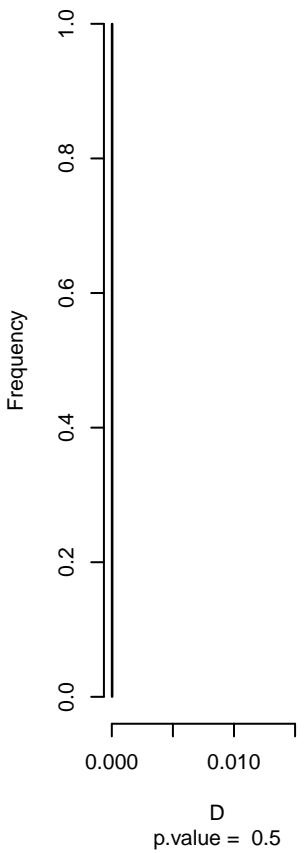
Equivalency



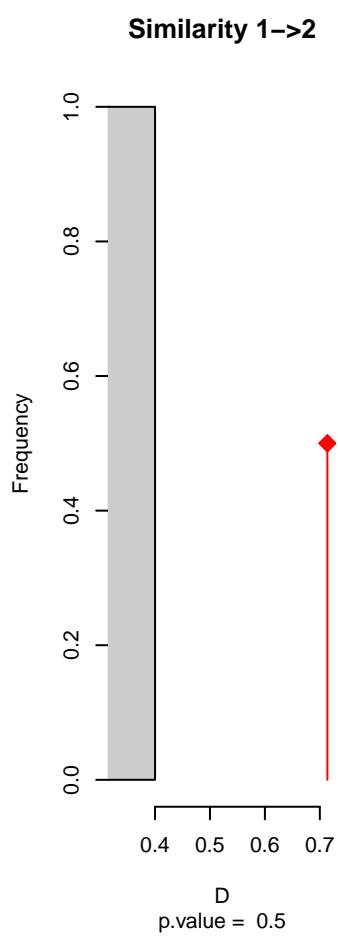
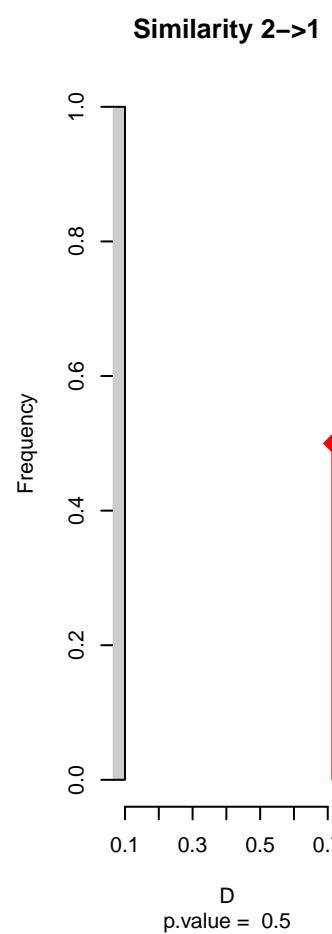
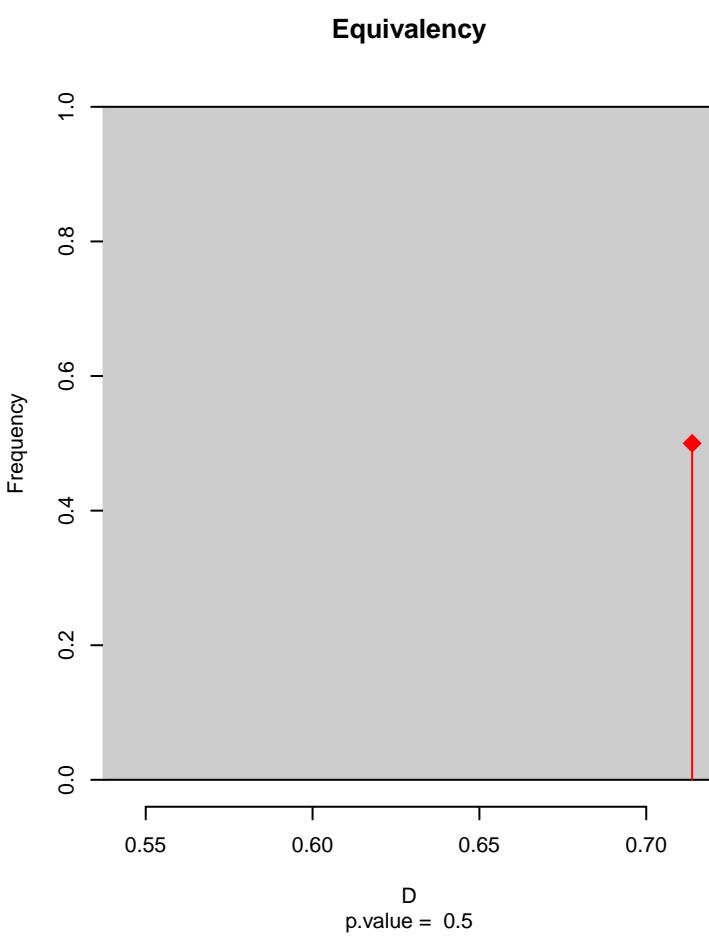
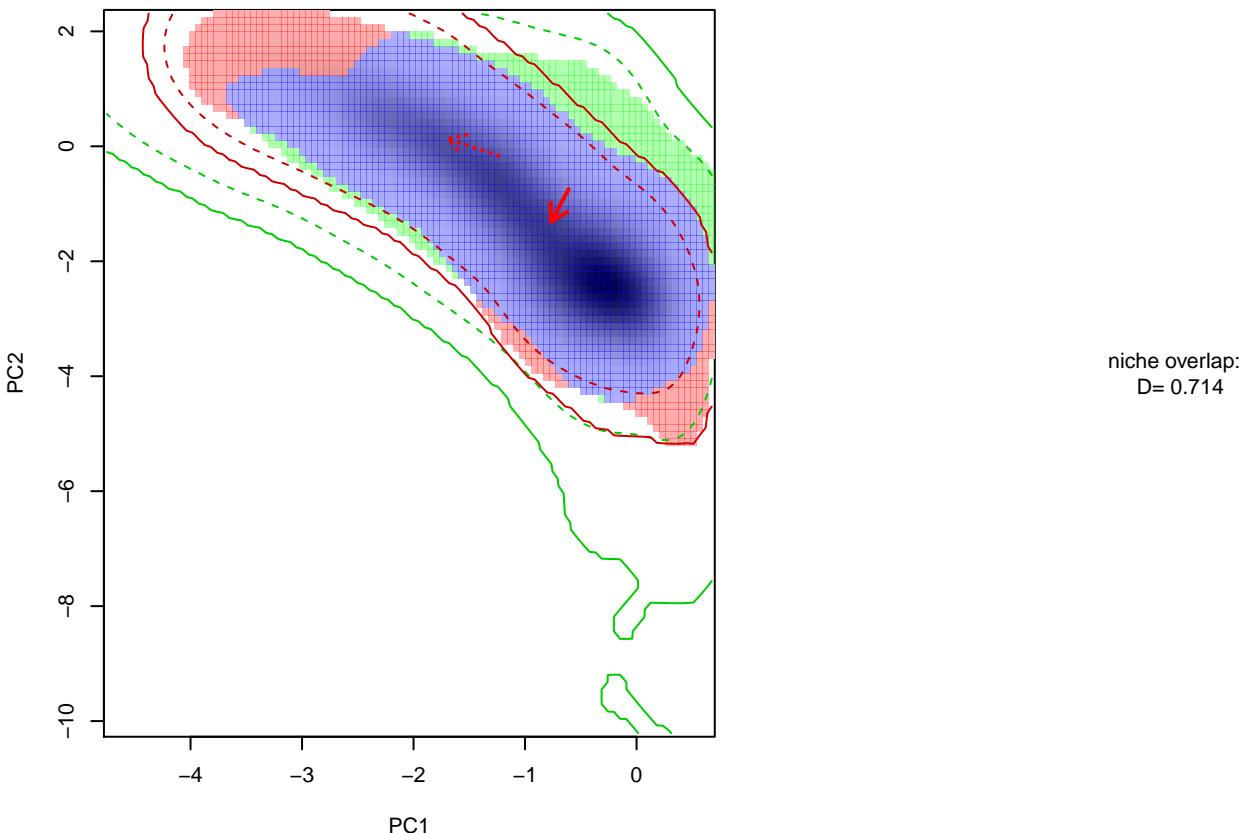
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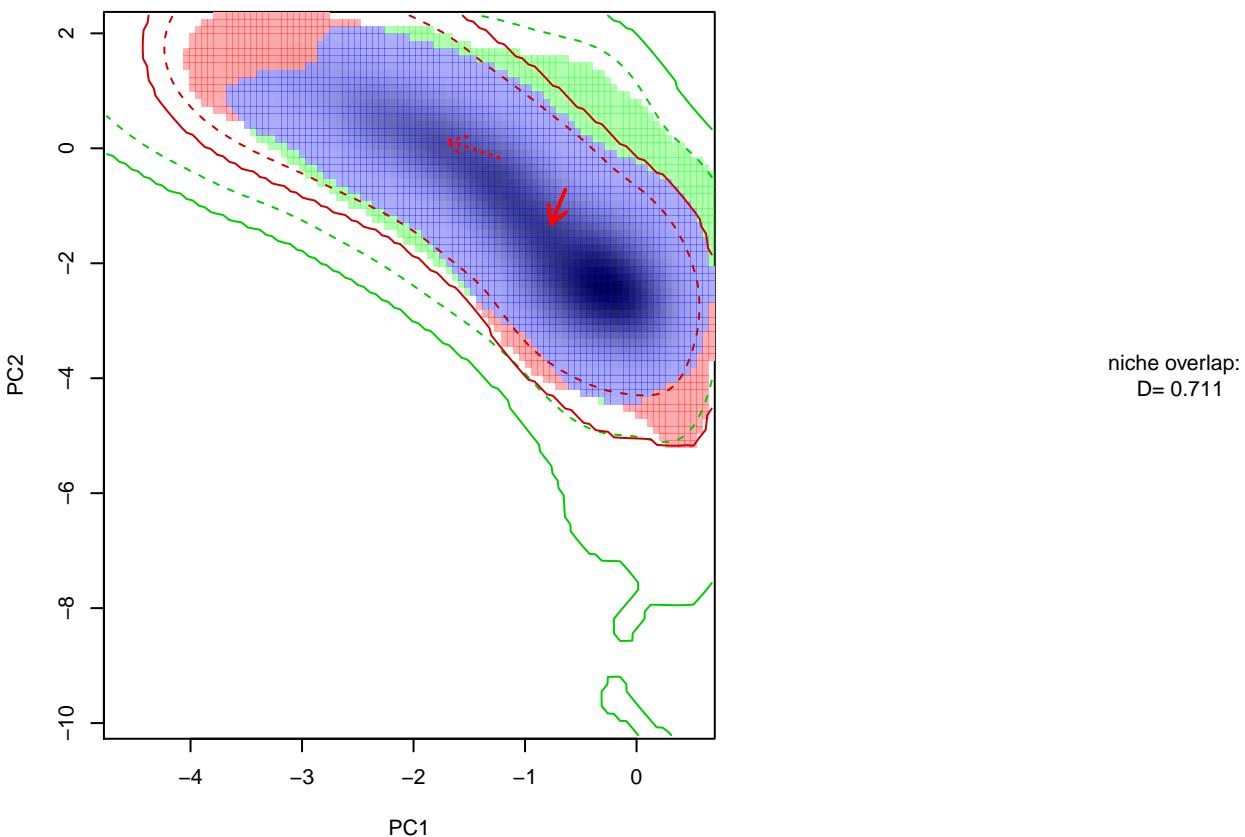
Similarity 1→2



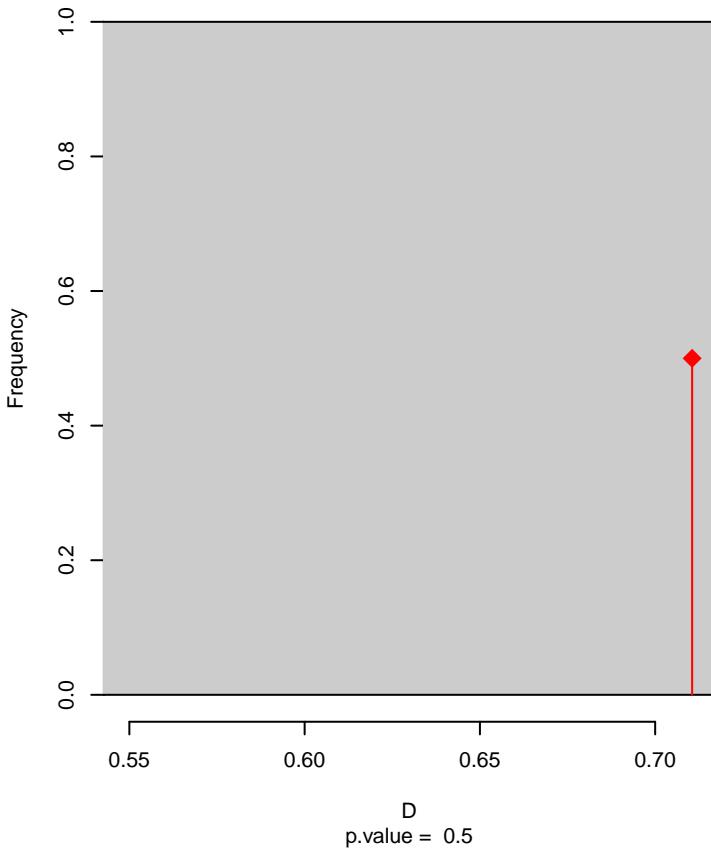
### *Psalidoprocne pristoptera* seasonal overlap



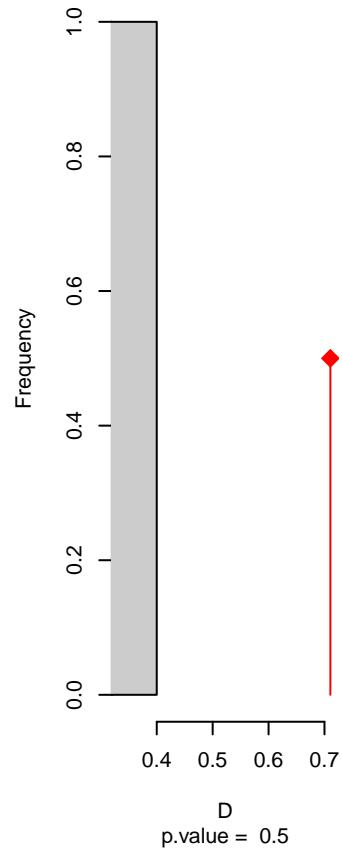
***Psalidoprocne pristoptera* seasonal overlap-hypo.br**



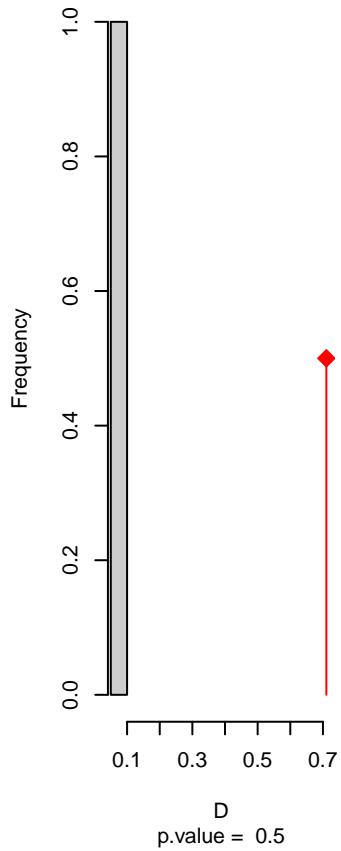
**Equivalency**



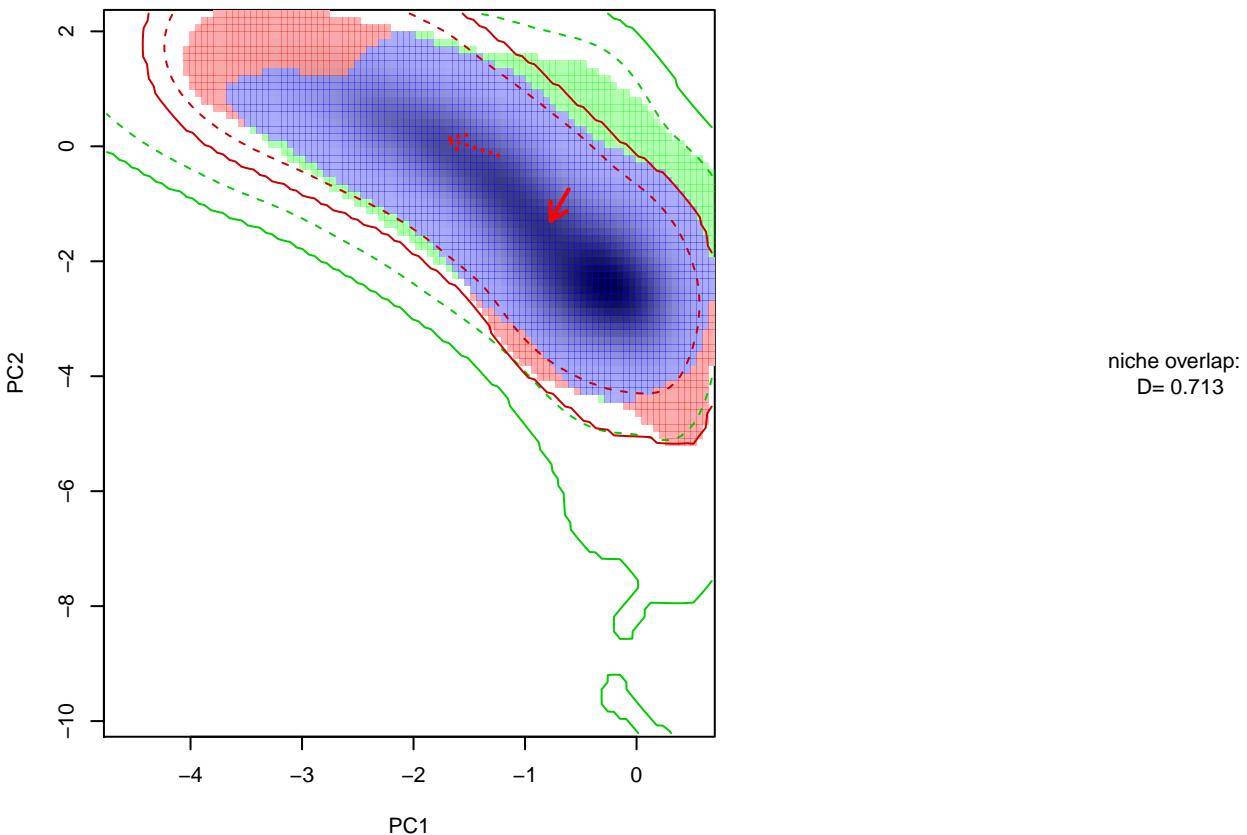
**Similarity 2→1**



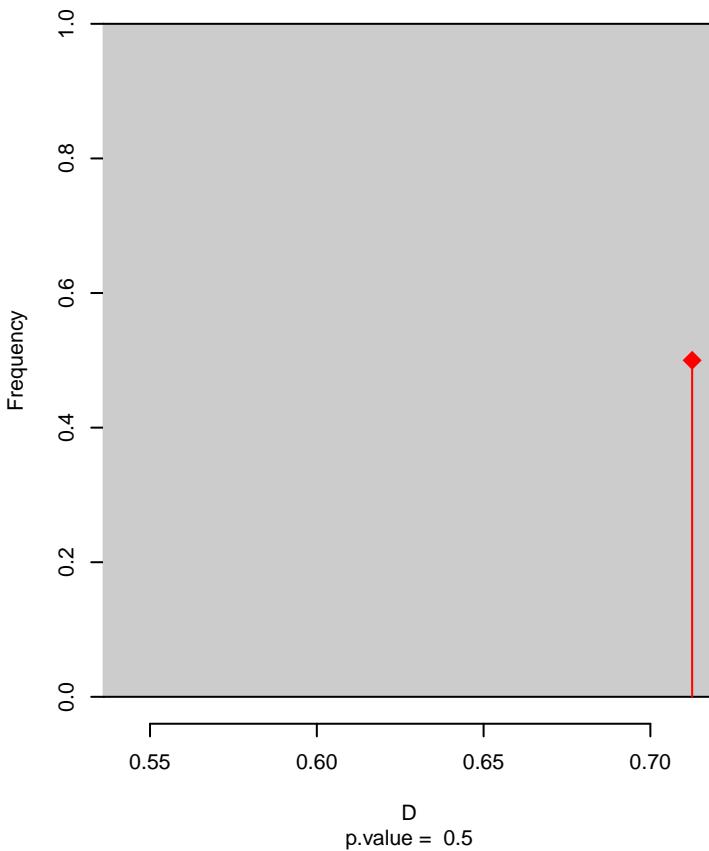
**Similarity 1→2**



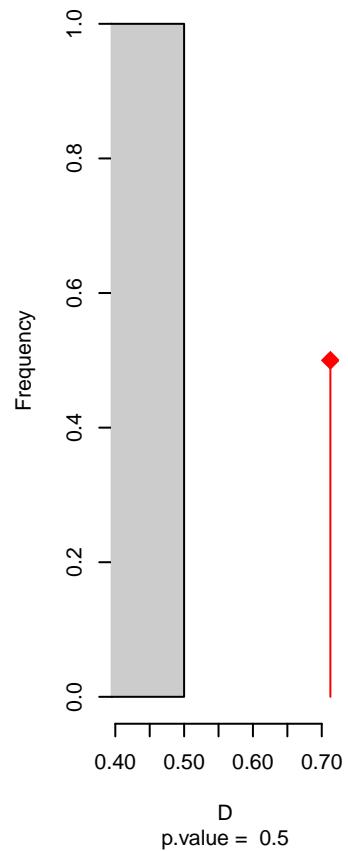
# *Psalidoprocne pristoptera* seasonal overlap-hypo wi



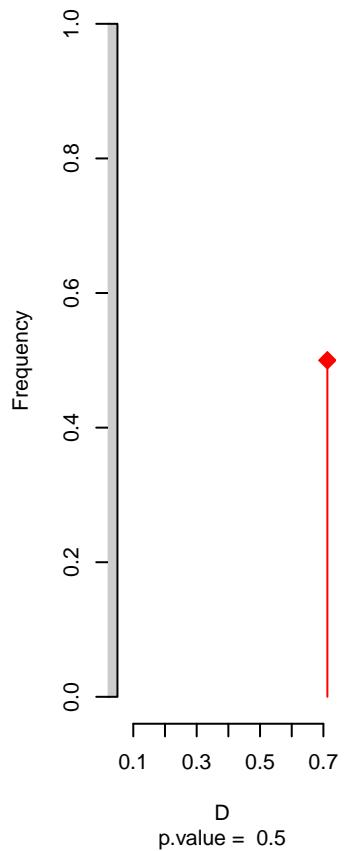
**Equivalency**



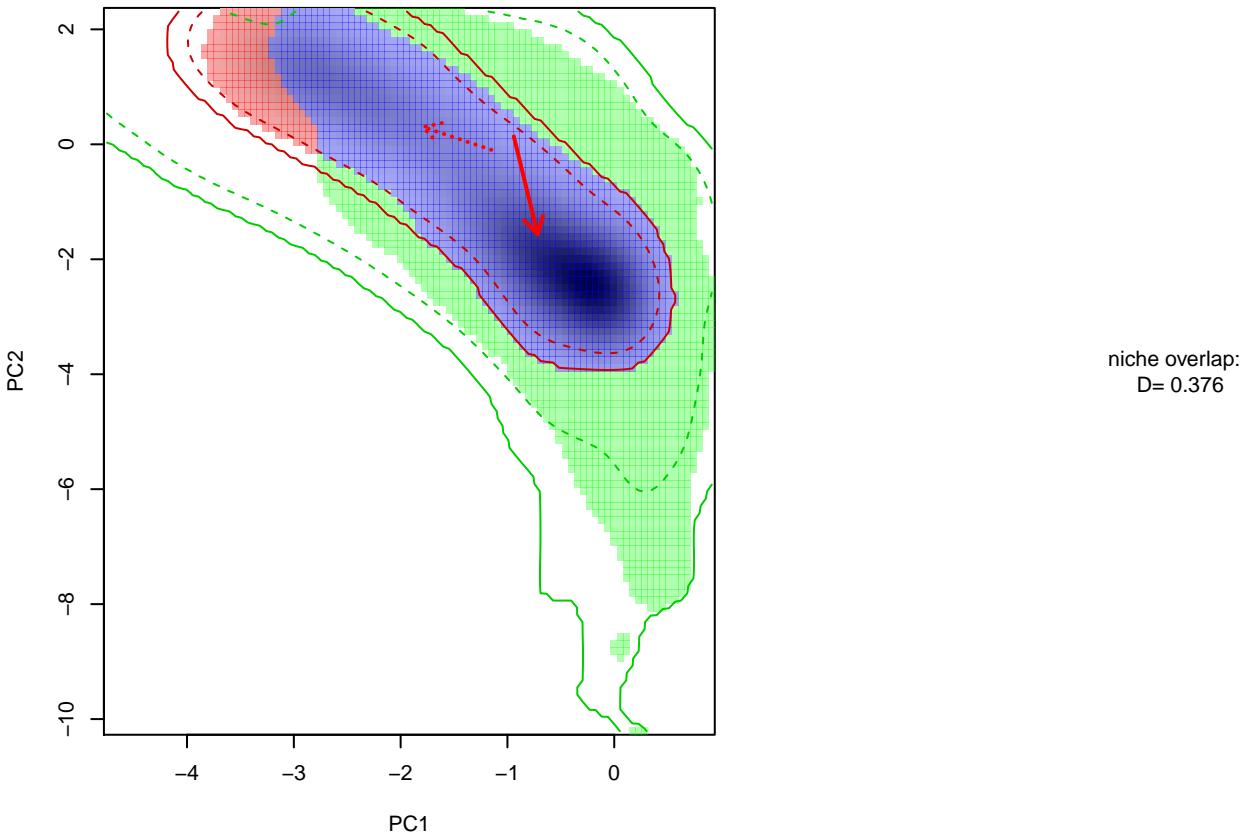
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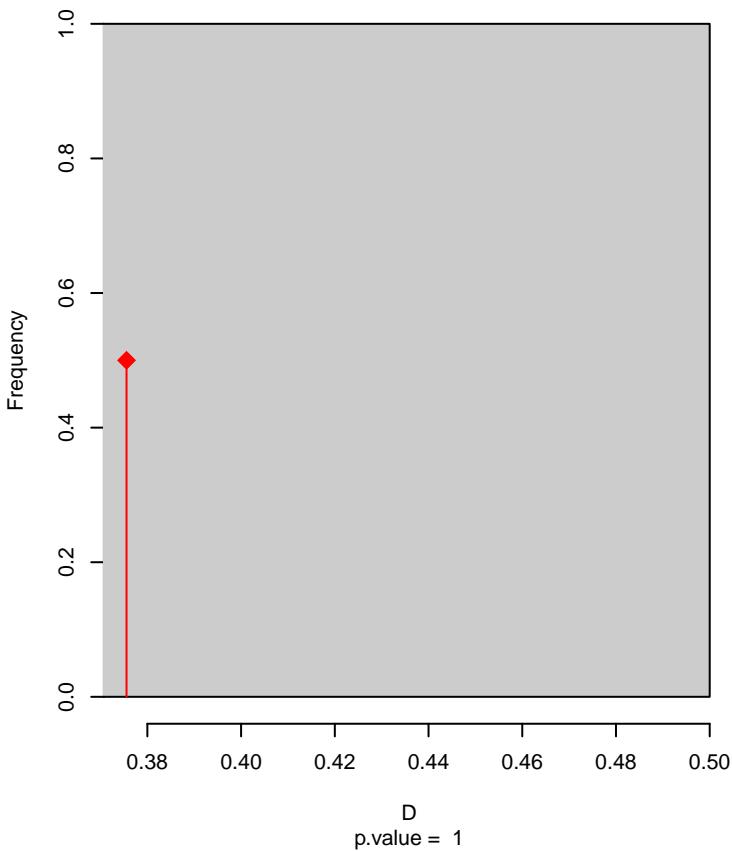
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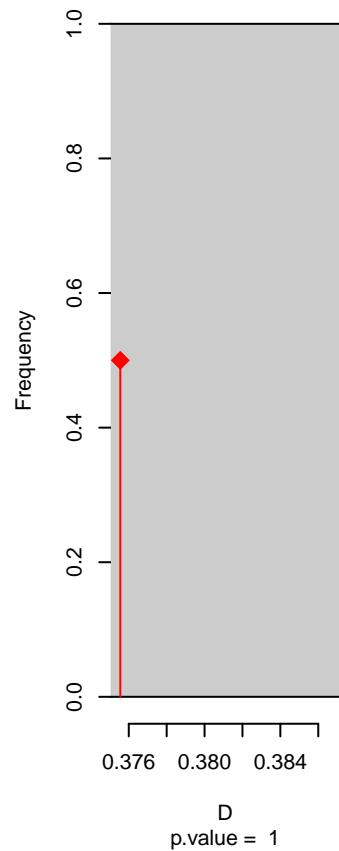
# Pseudhirundo\_griseopyga seasonal overlap



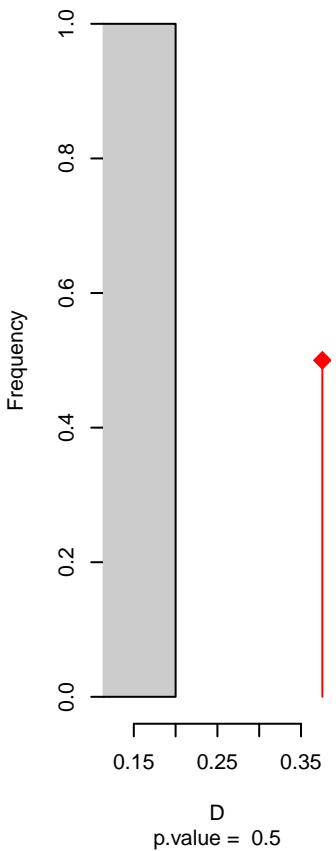
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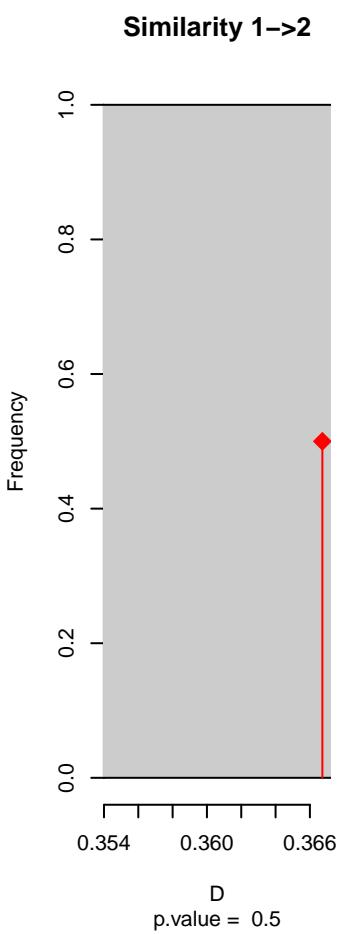
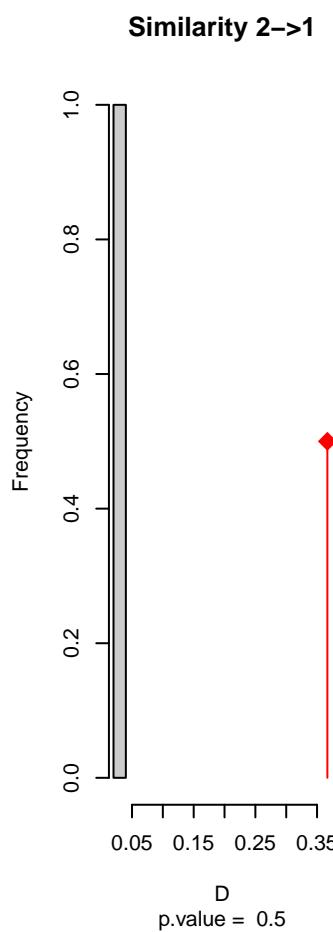
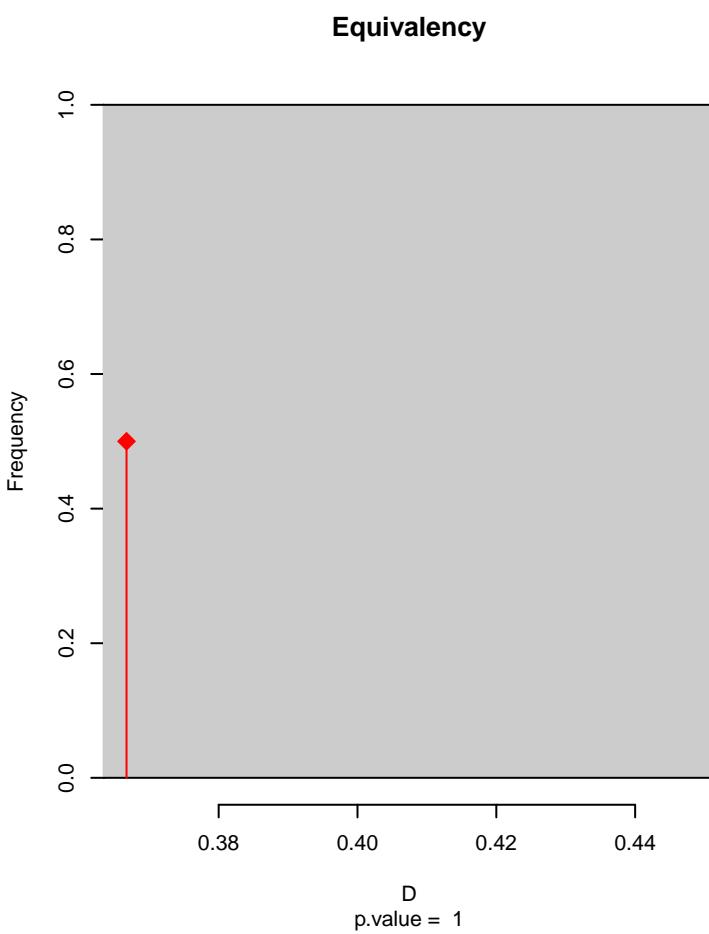
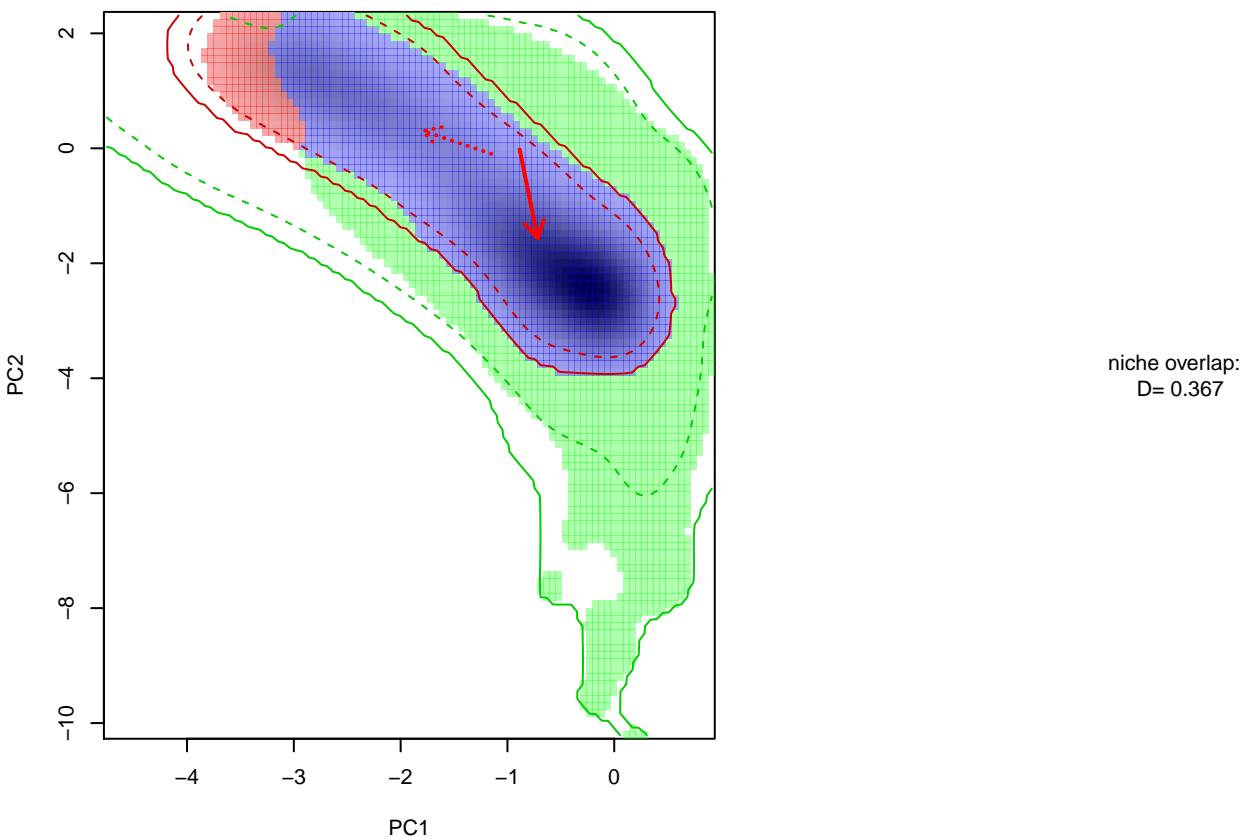
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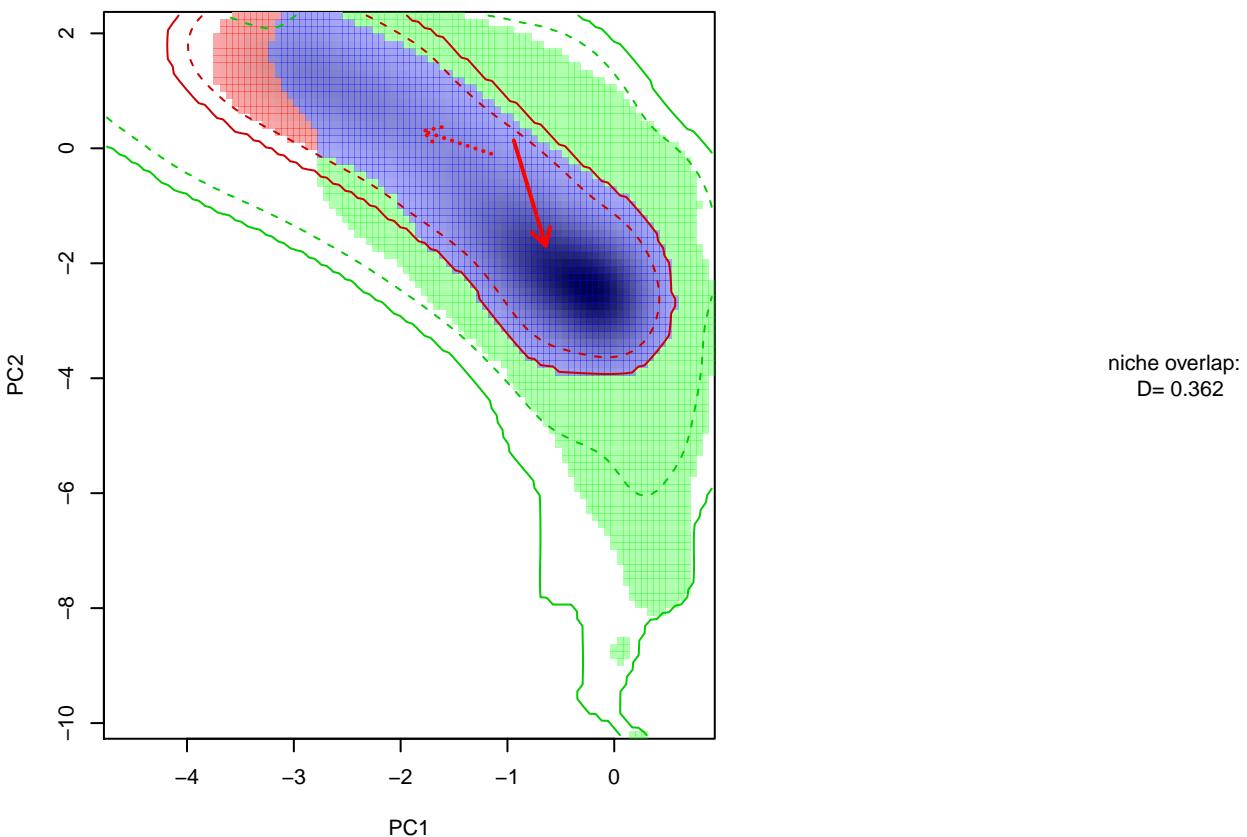
**Similarity 1→2**



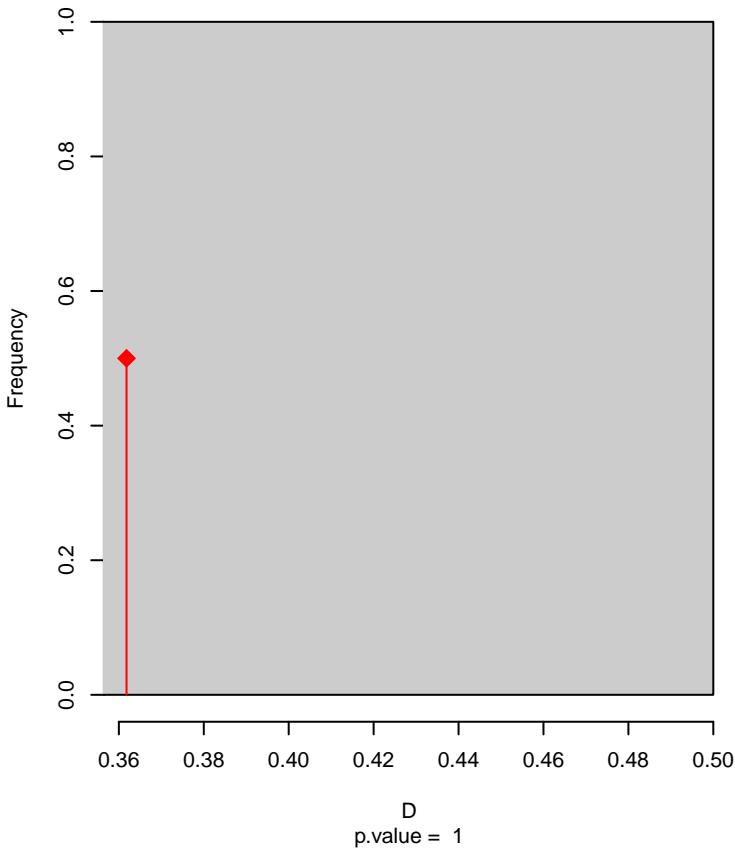
# Pseudhirundo\_griseopyga seasonal overlap-hypo.br



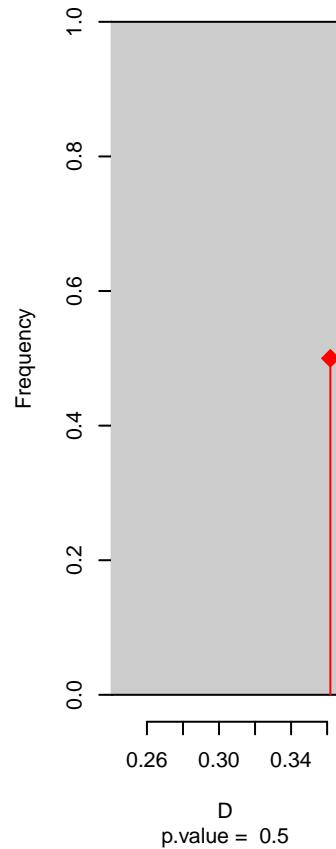
# Pseudhirundo\_griseopyga seasonal overlap-hypo wi



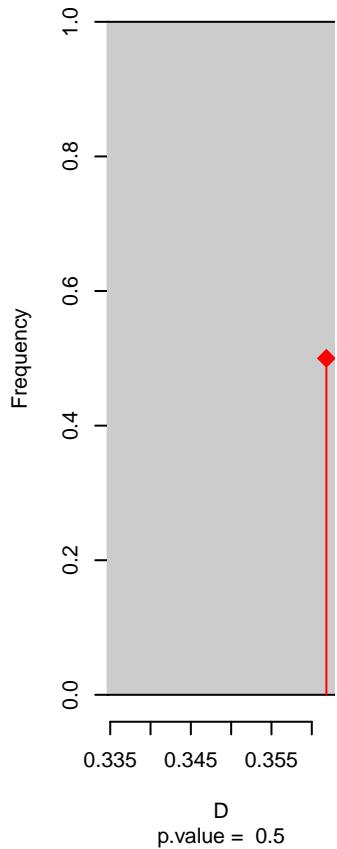
**Equivalency**



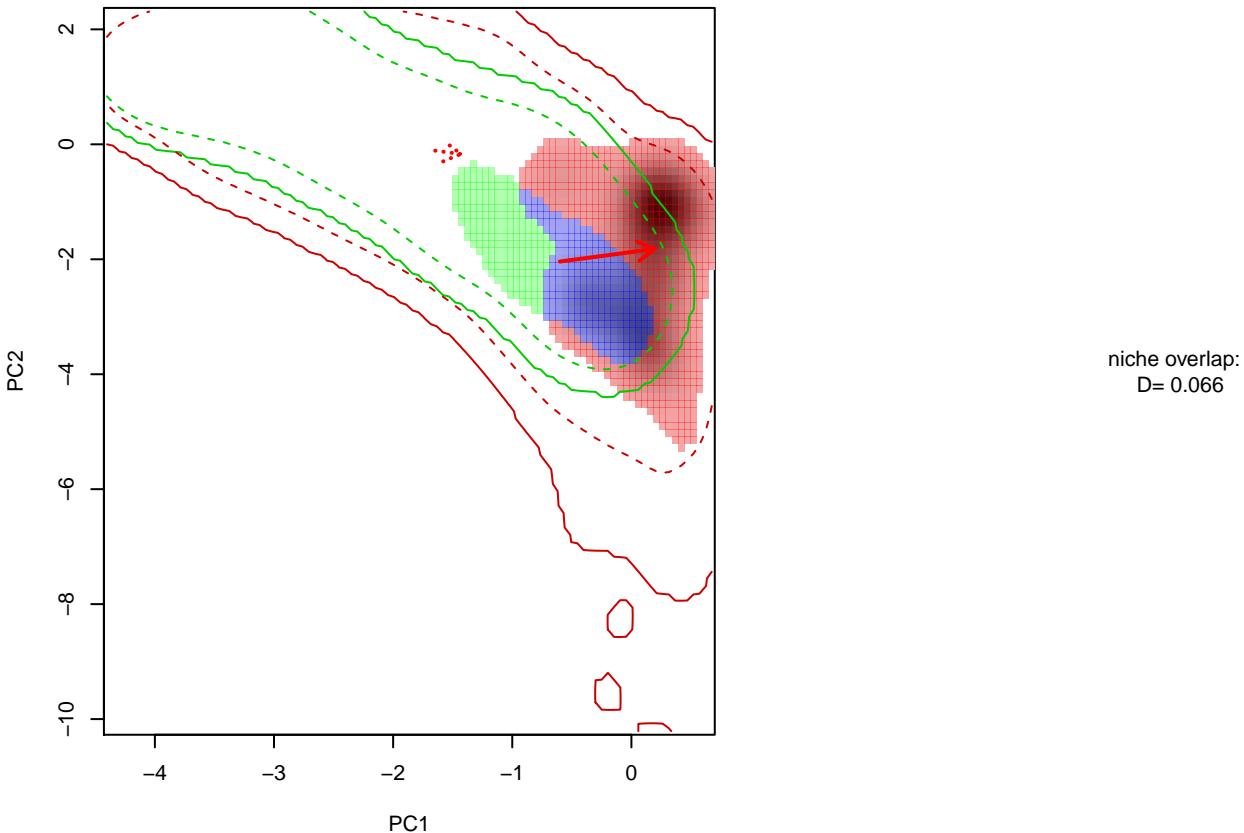
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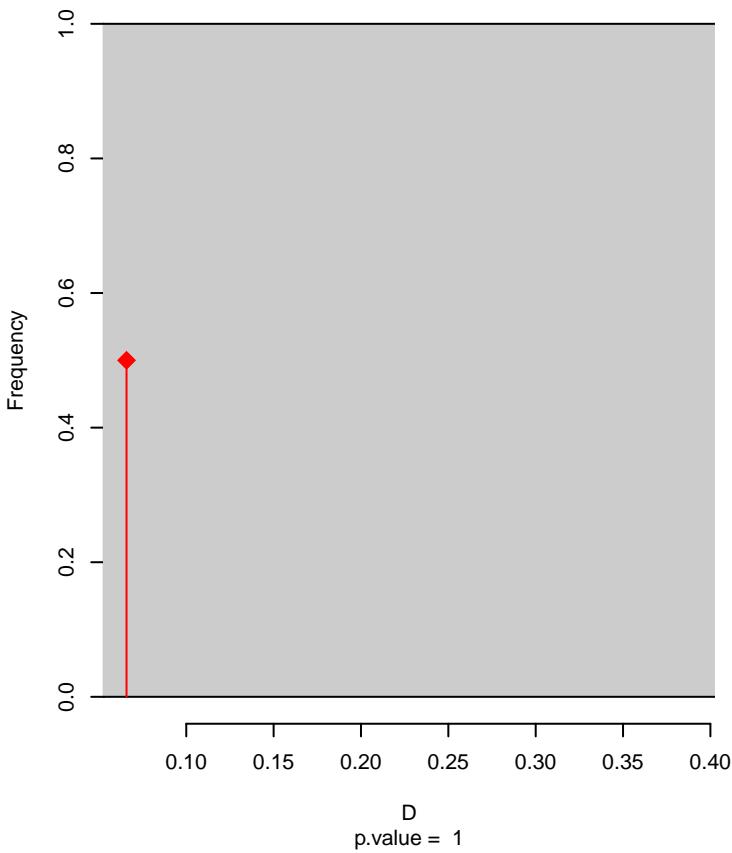
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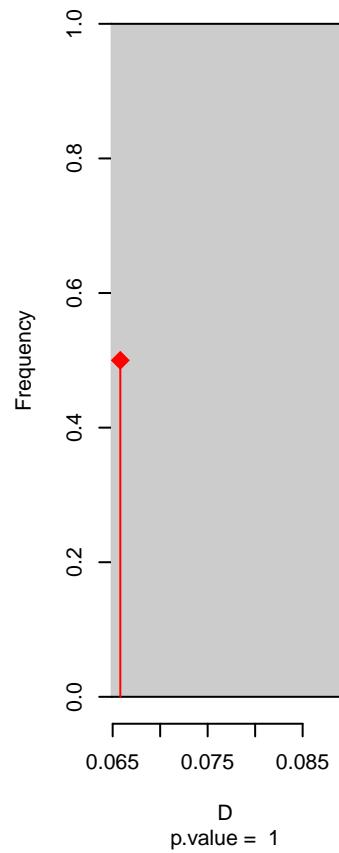
### Pseudochelidon\_eurystomina seasonal overlap



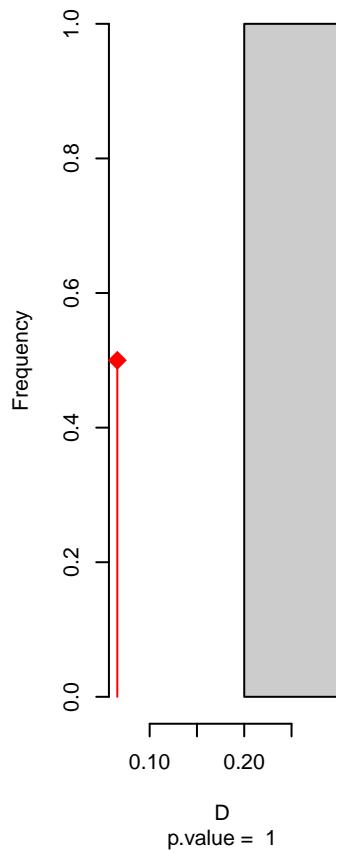
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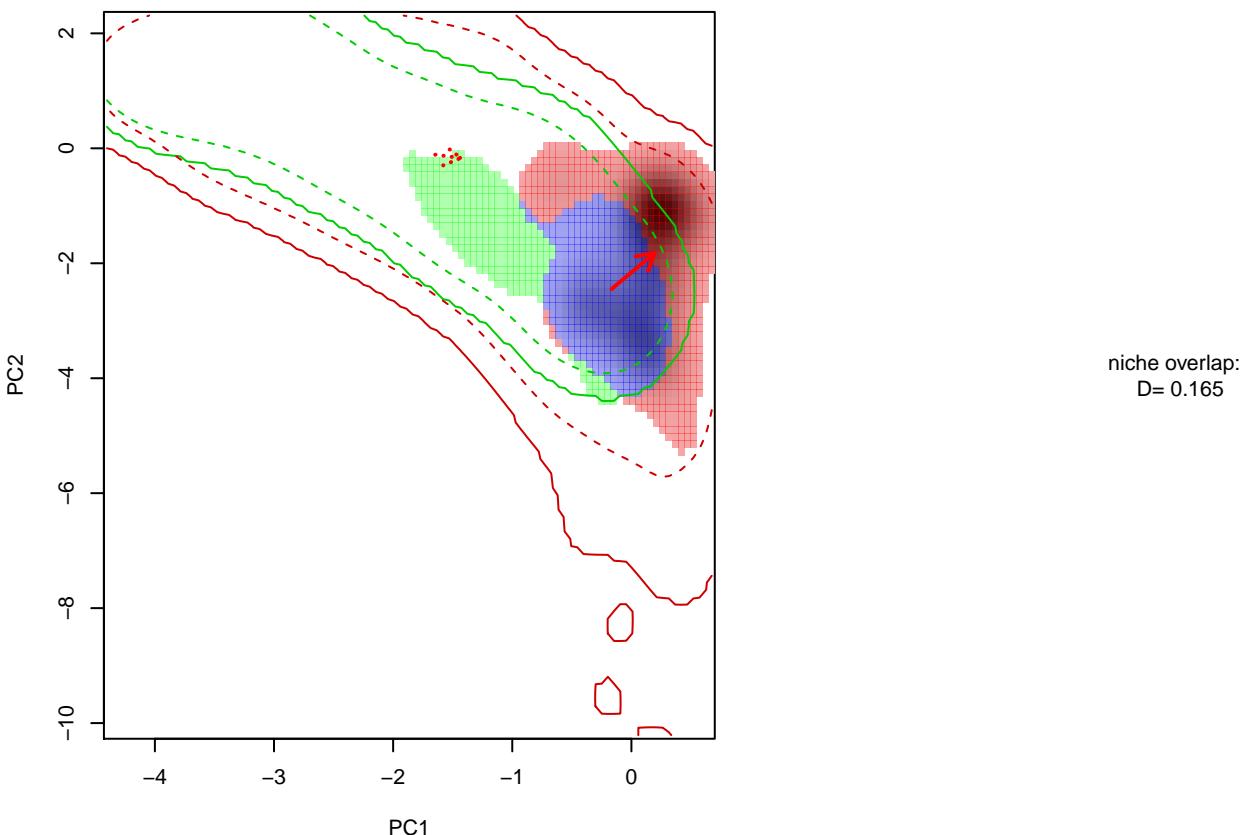
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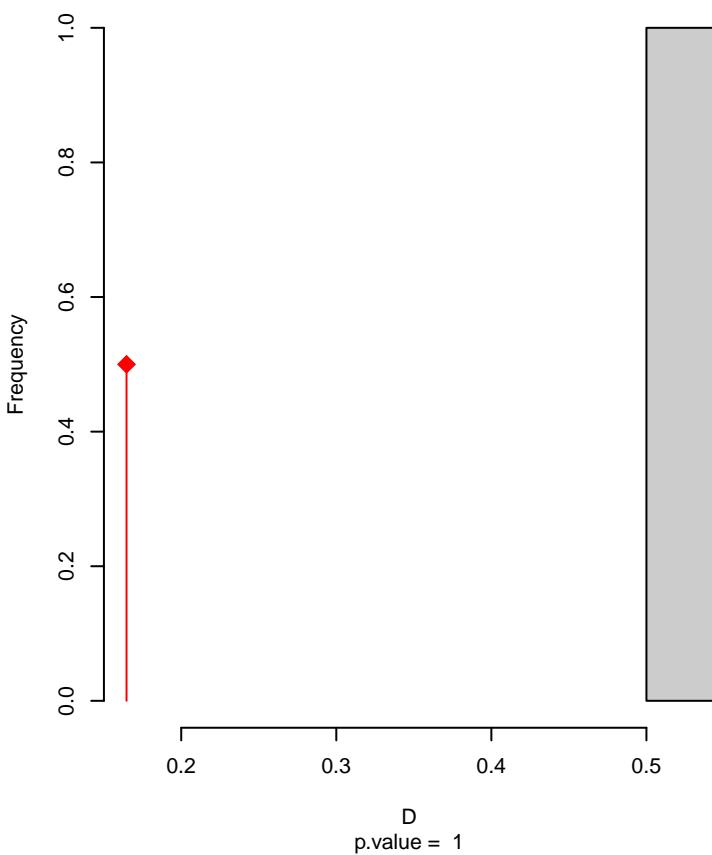
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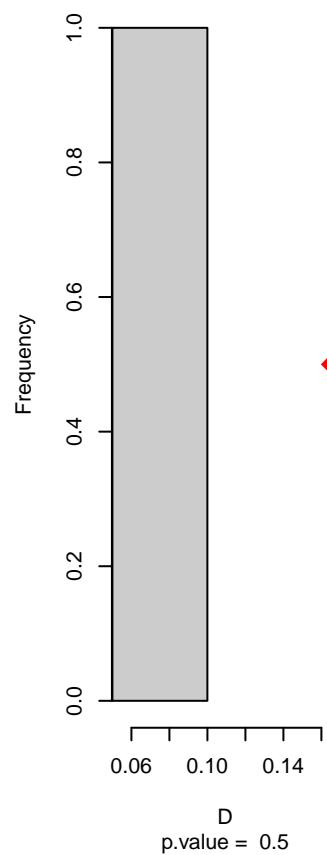
# Pseudochelidon\_eurystomina seasonal overlap-hypo.br



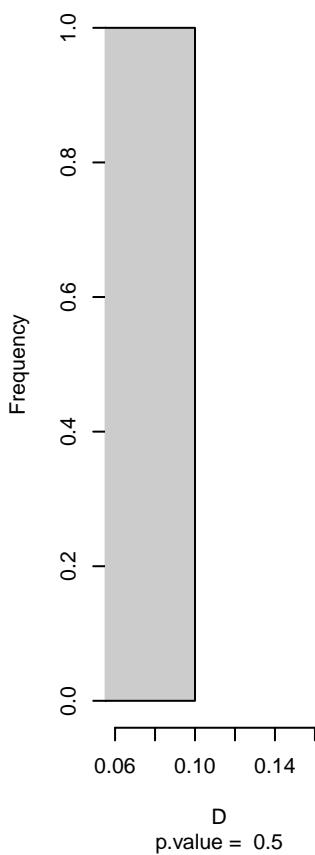
**Equivalency**



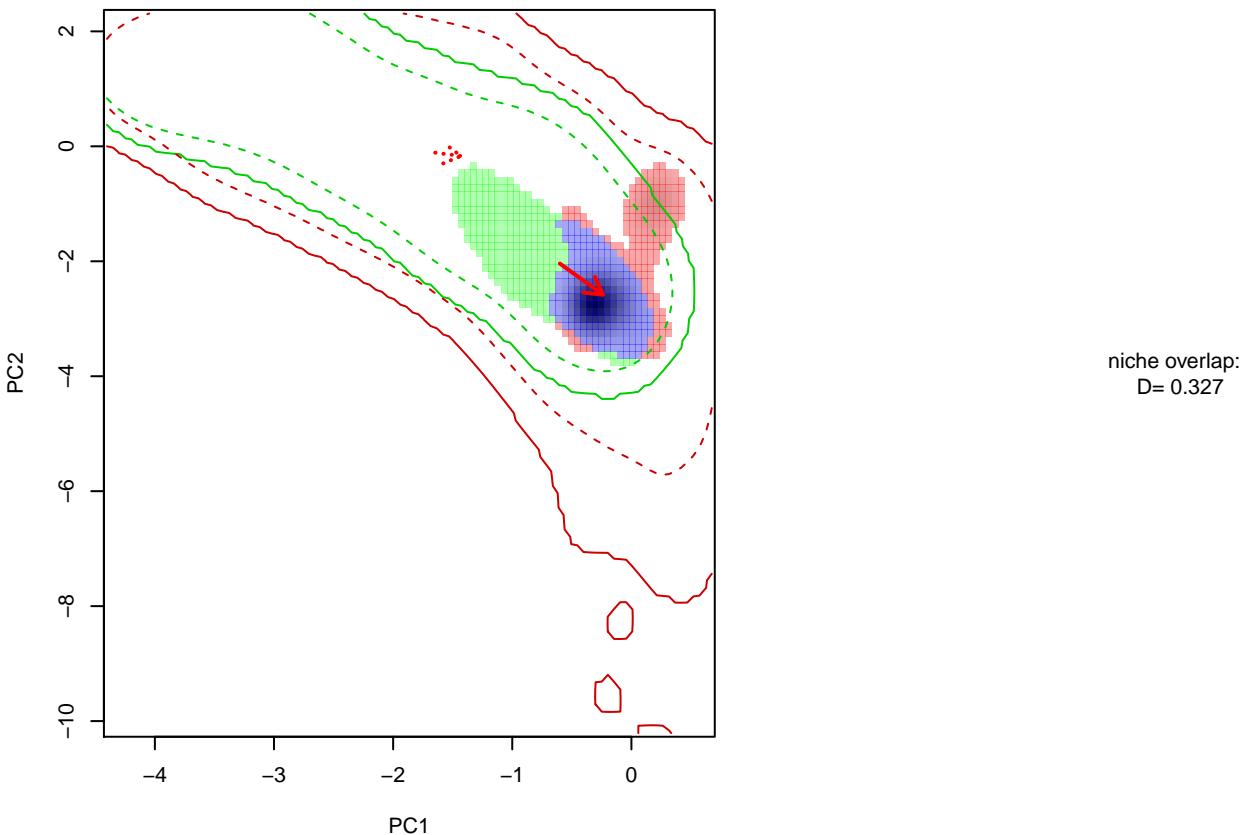
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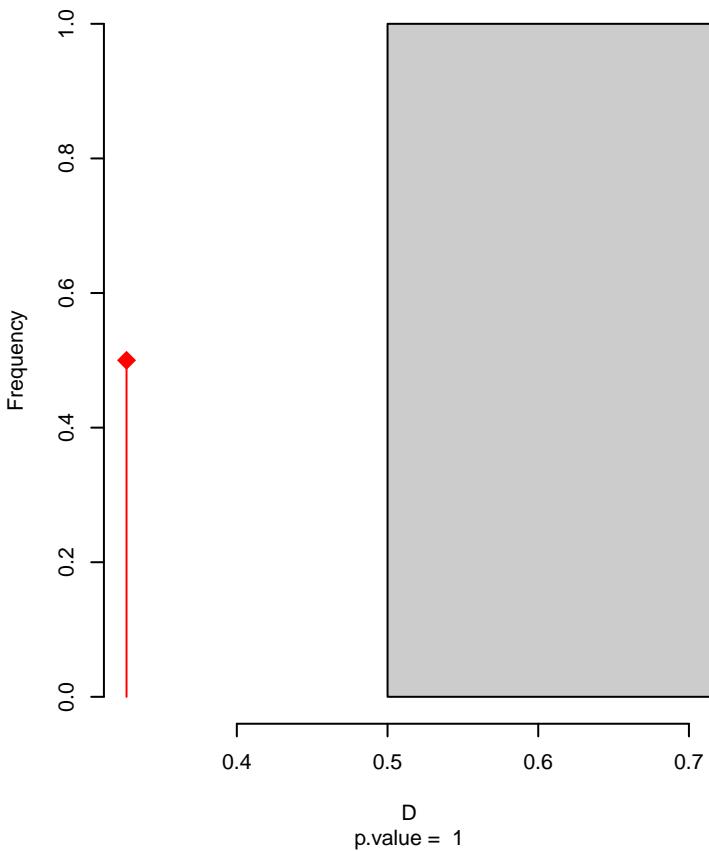
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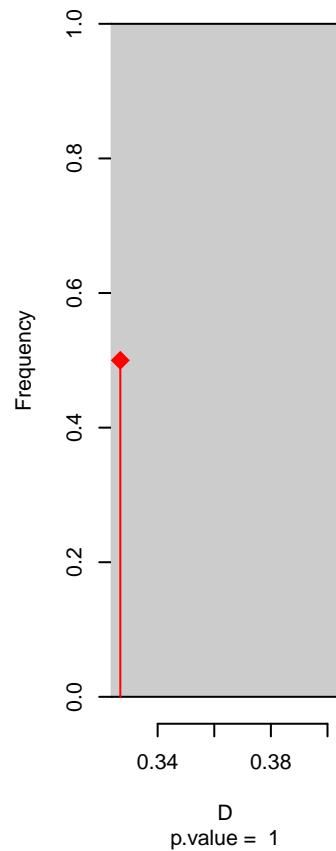
# Pseudochelidon\_eurystomina seasonal overlap-hypo wi



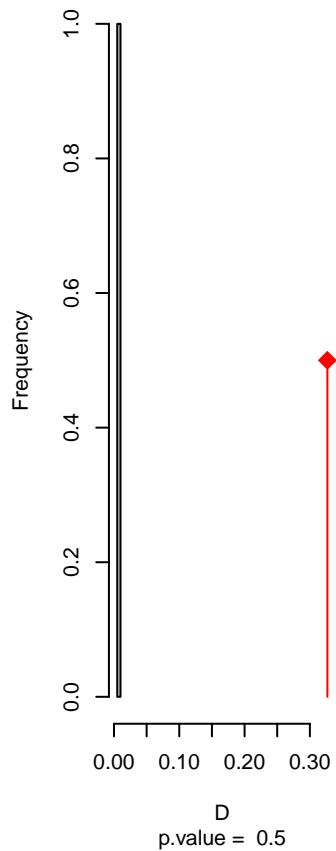
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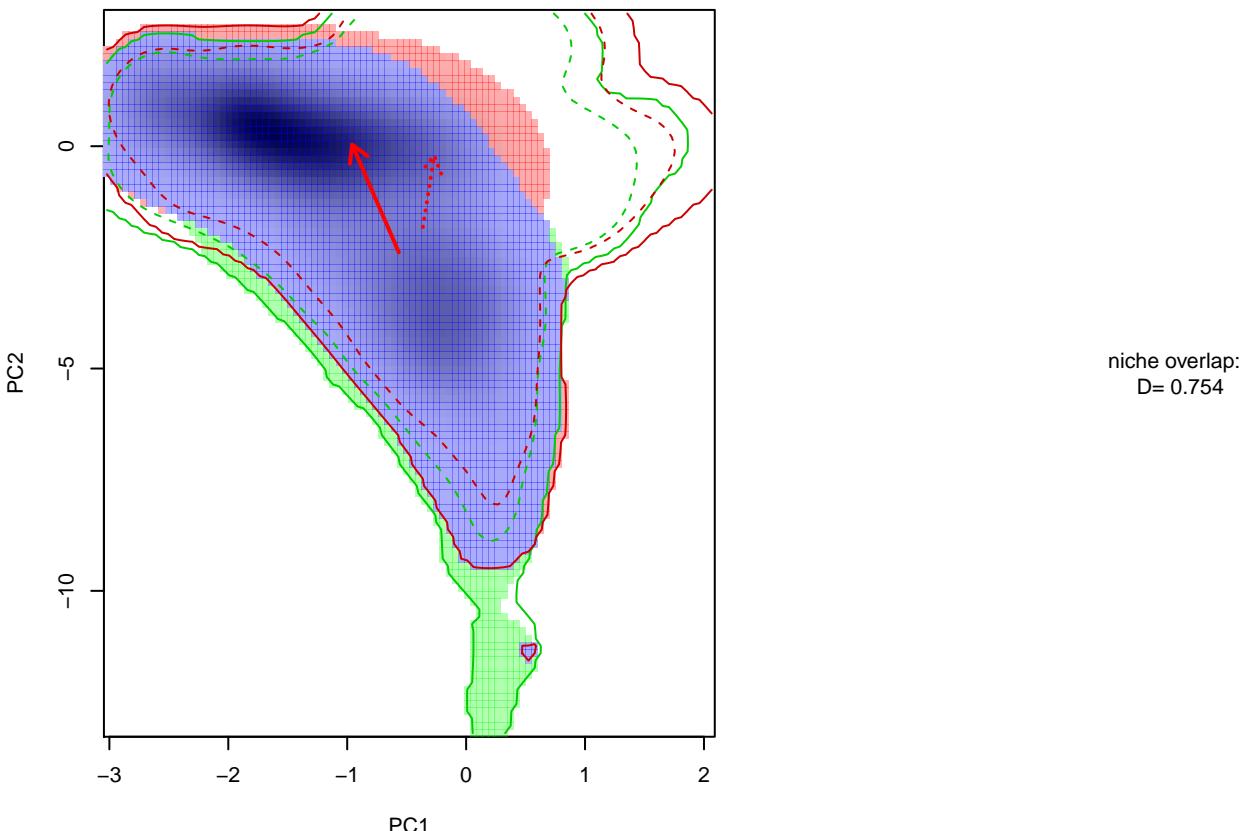
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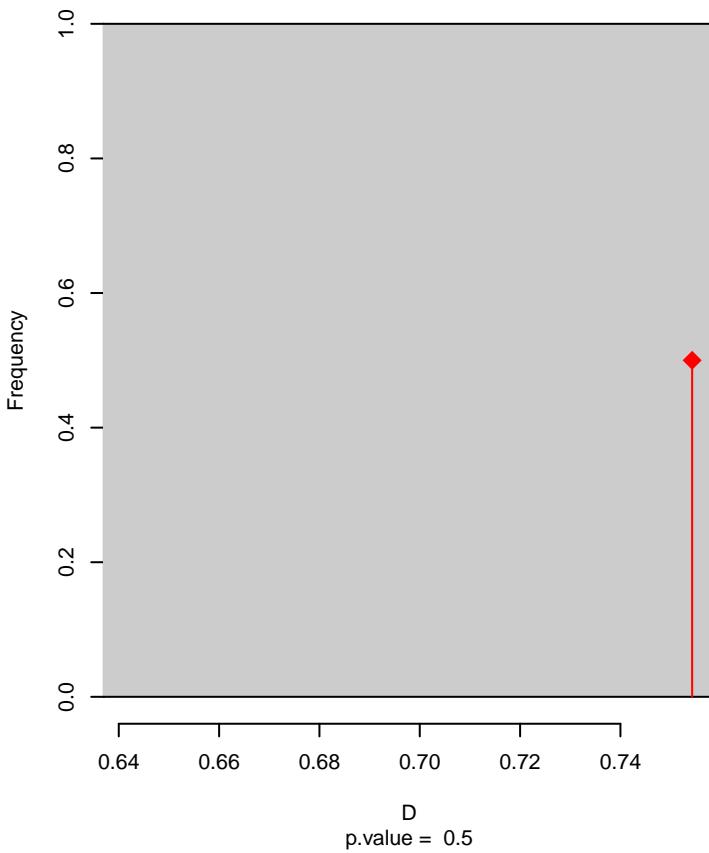
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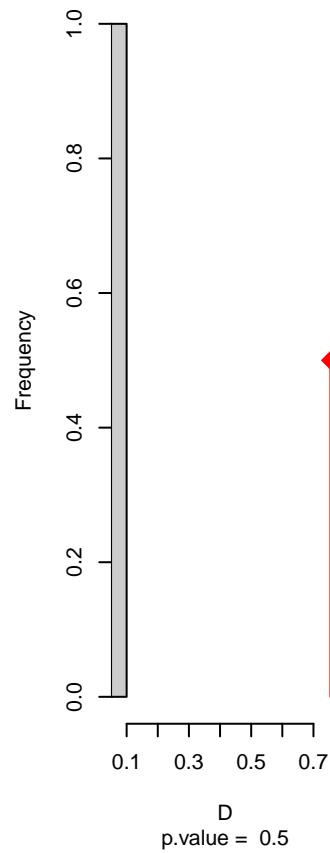
### Ptyonoprogne\_concolor seasonal overlap



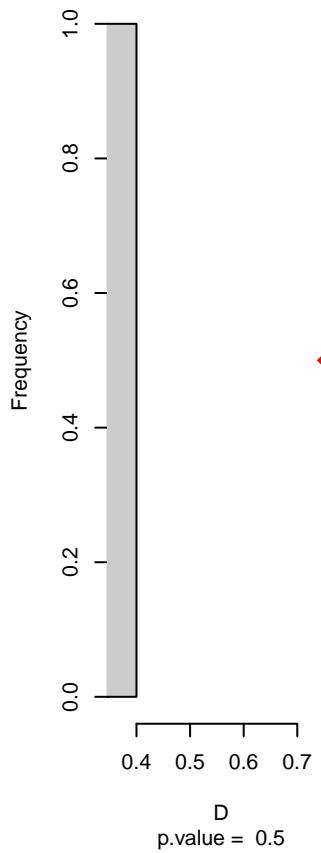
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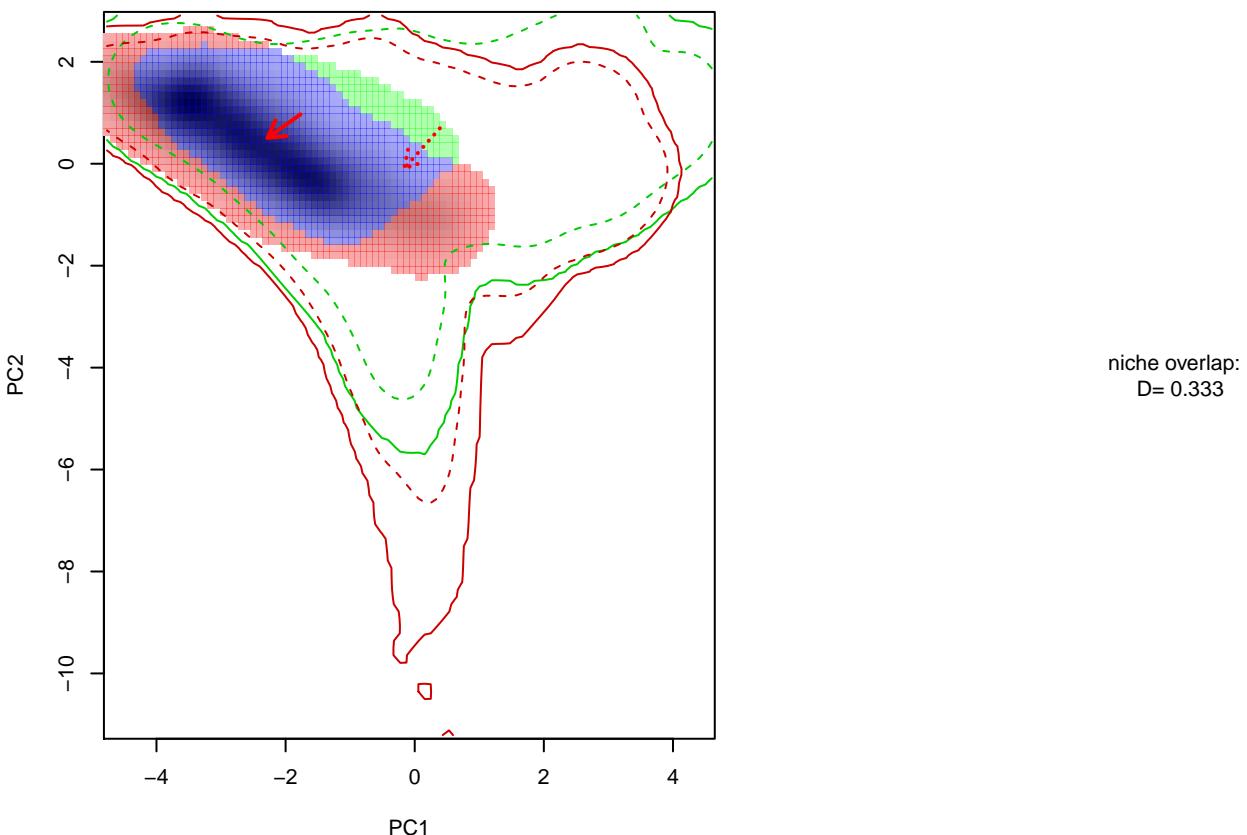
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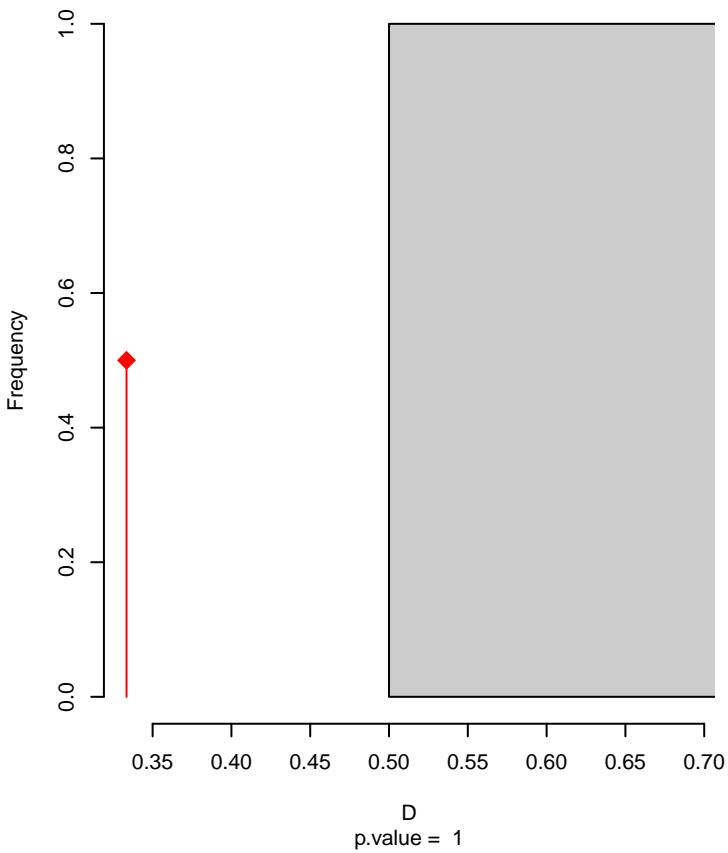
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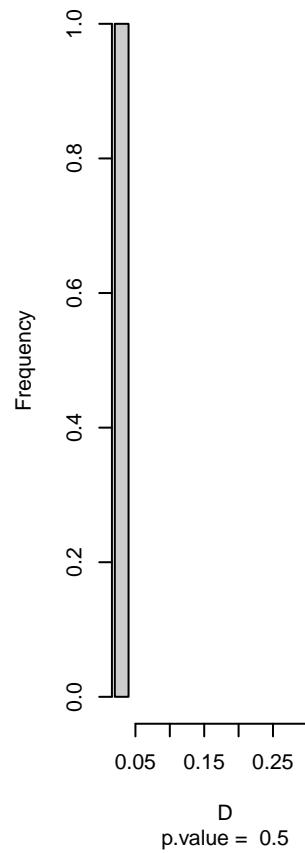
### Ptyonoprogne\_obsoleta seasonal overlap



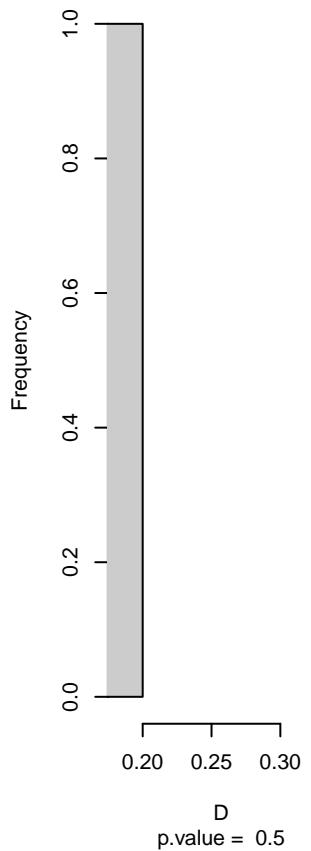
**Equivalency**



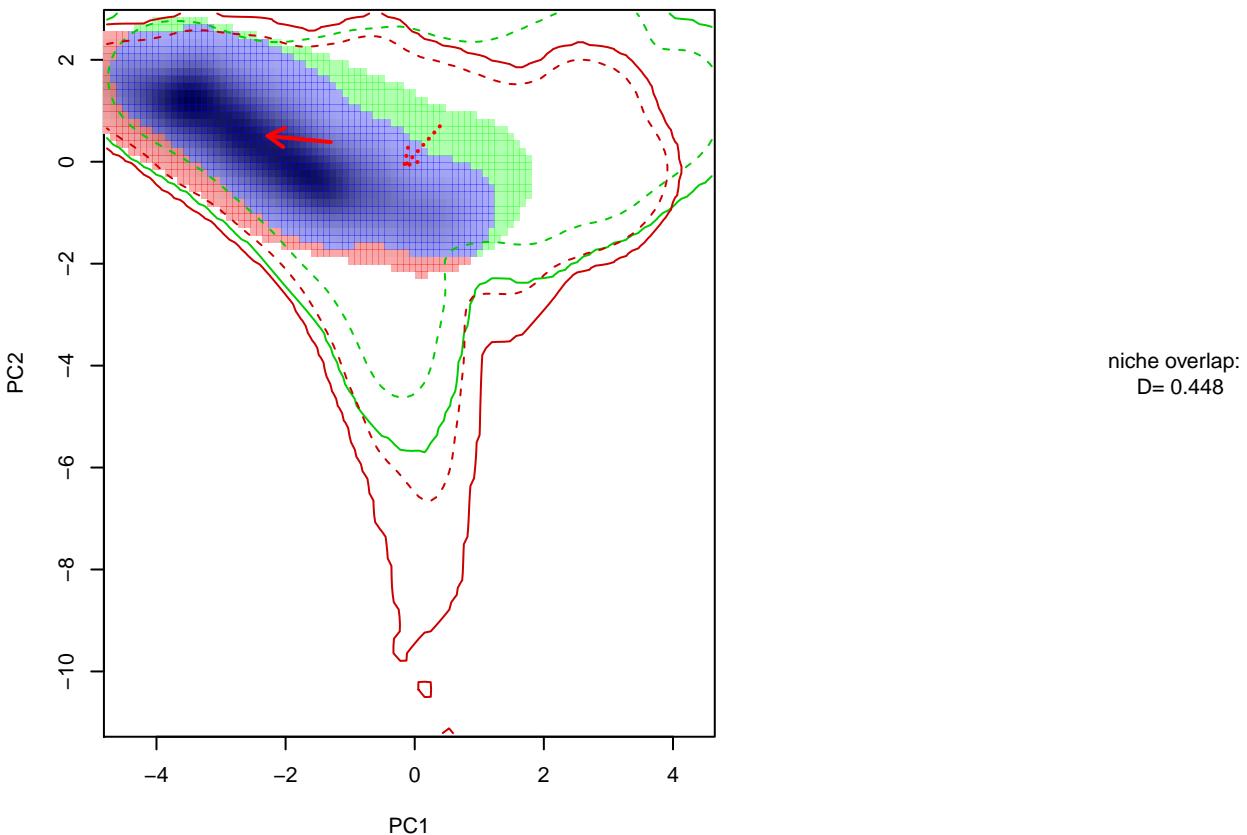
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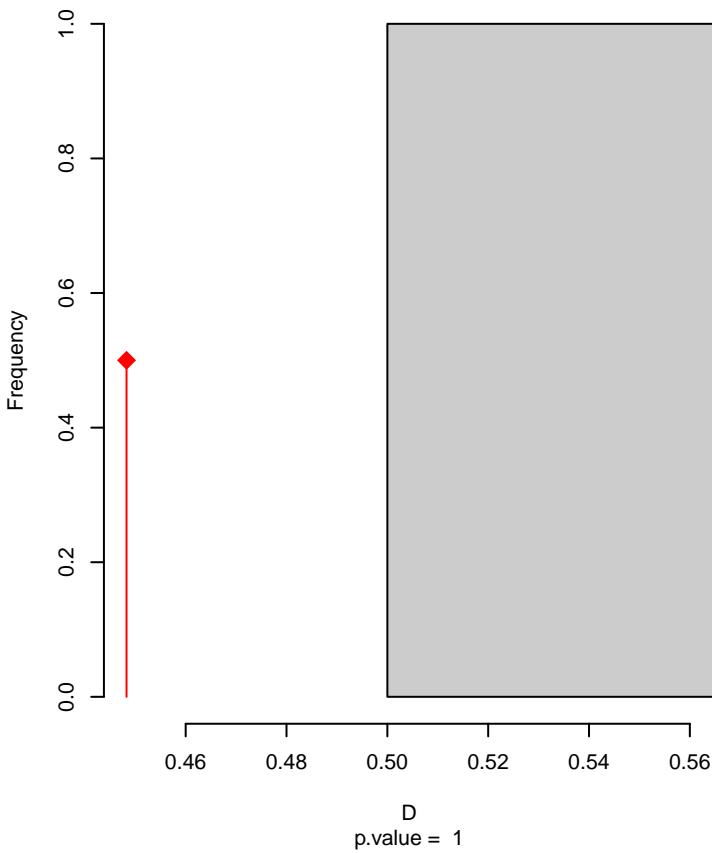
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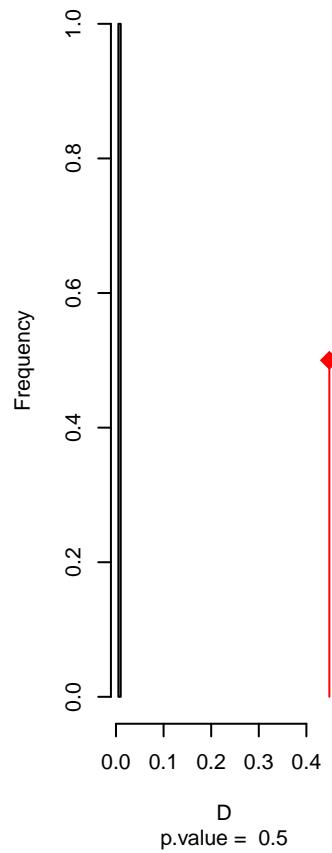
# Ptyonoprogneobsolete seasonal overlap-hypo.br



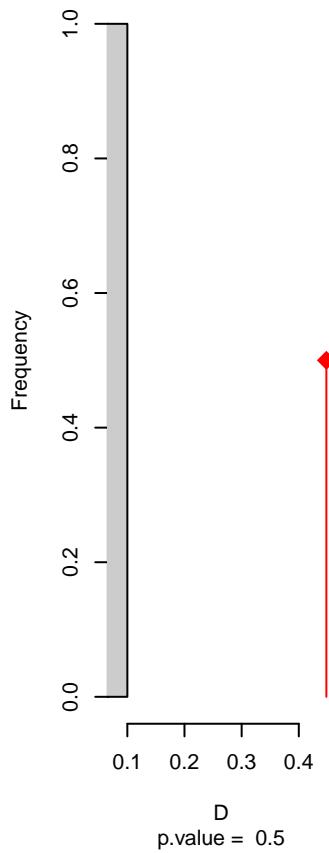
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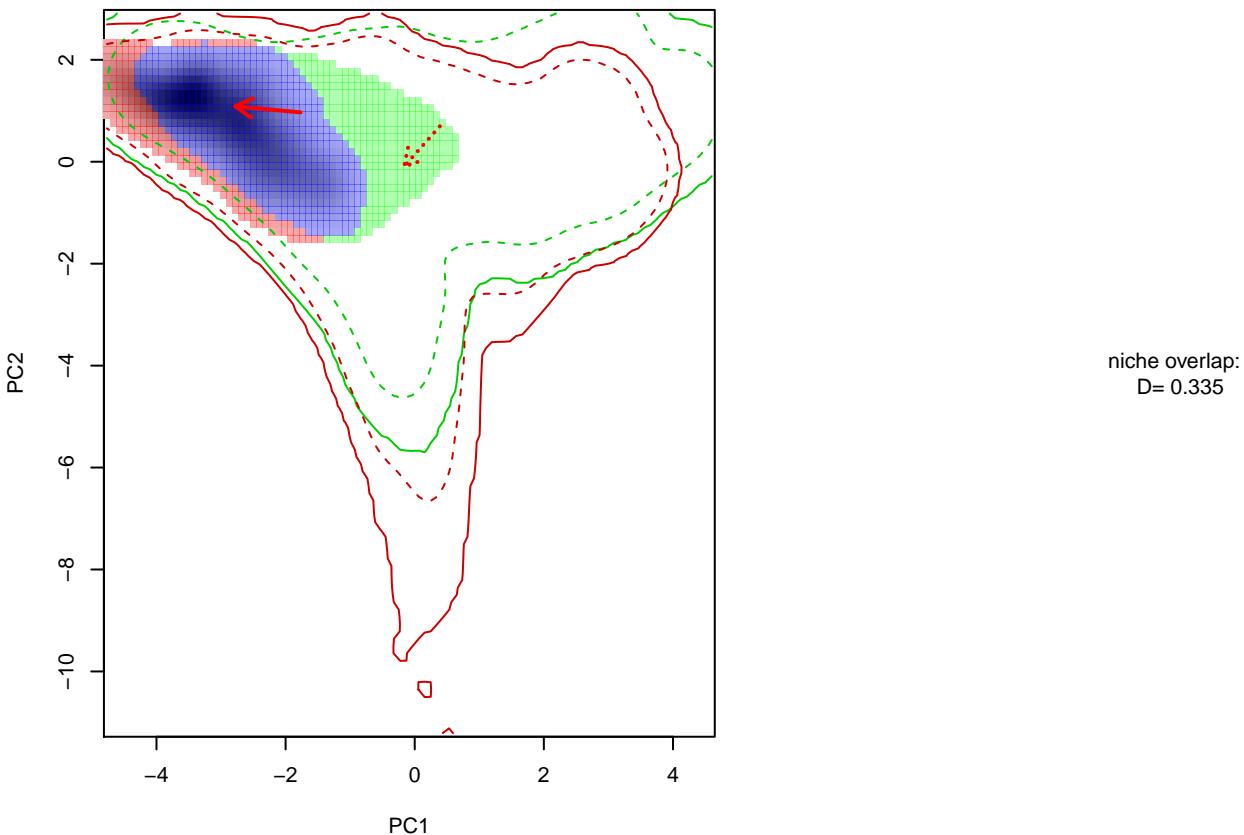
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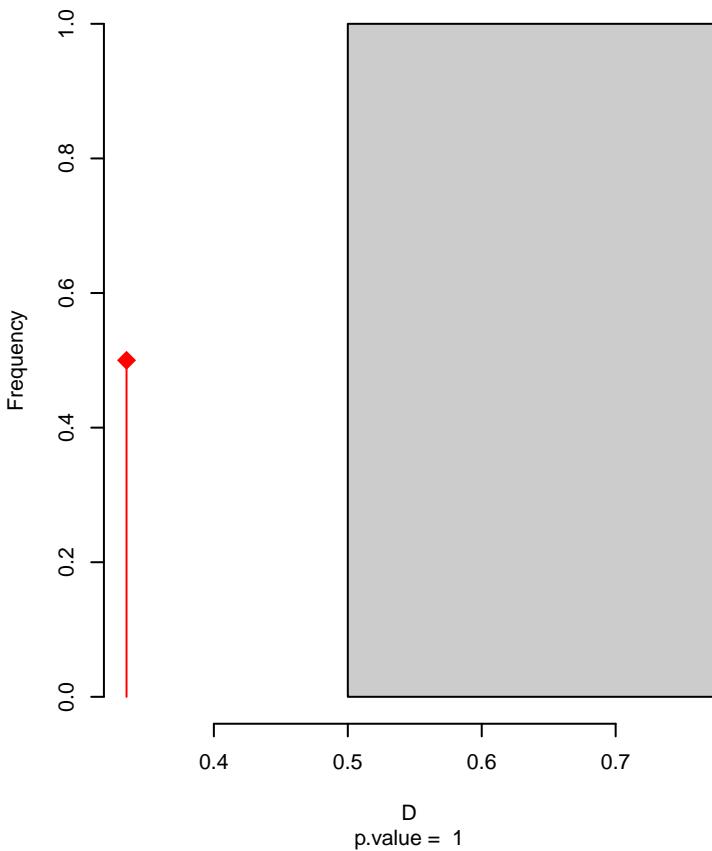
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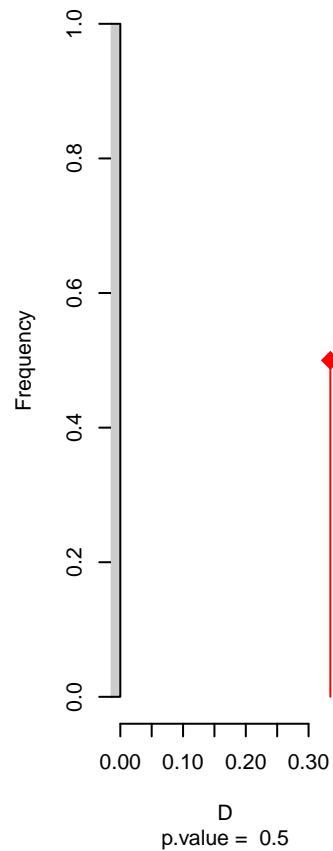
# Ptyonoprogneobsolete seasonal overlap-hypo wi



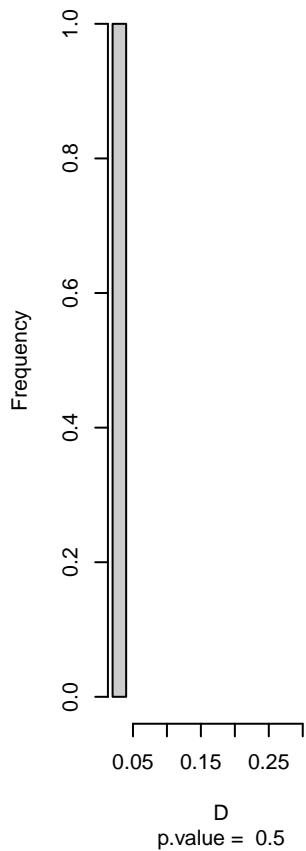
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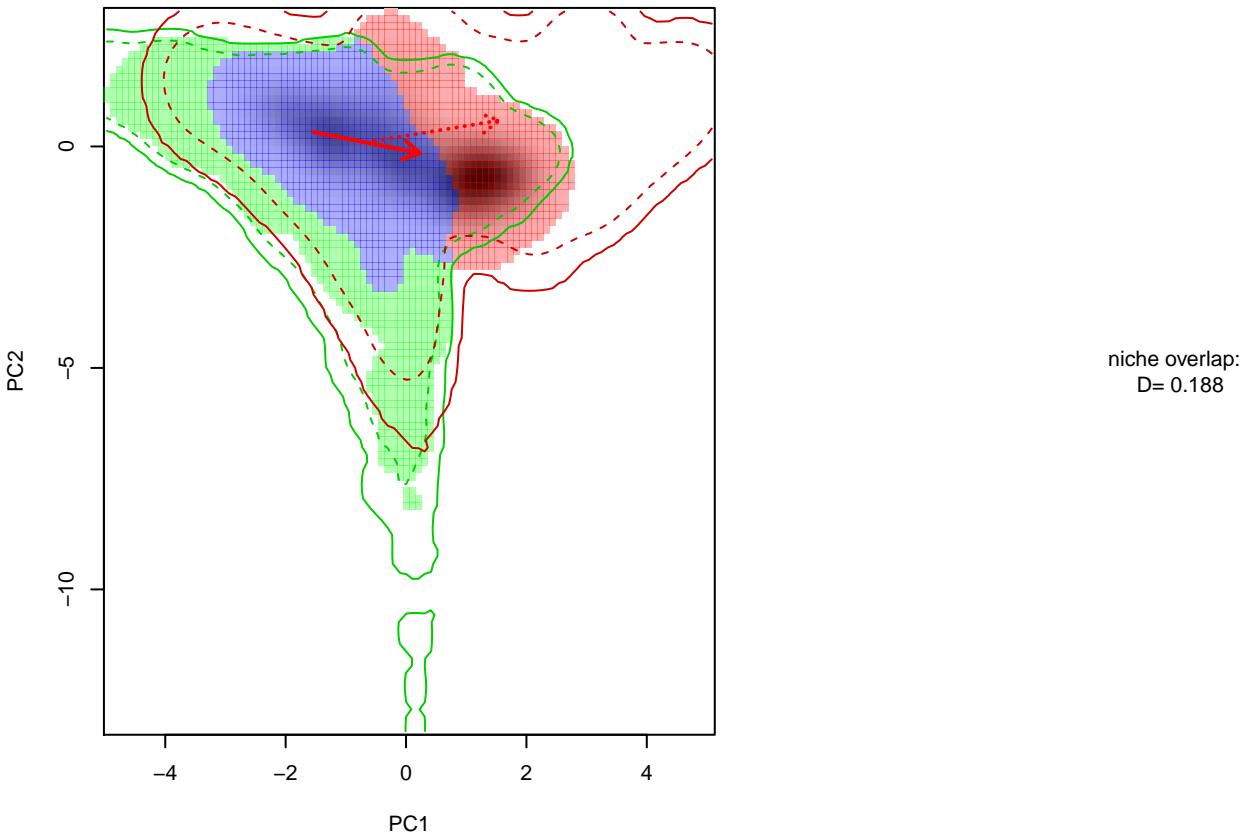
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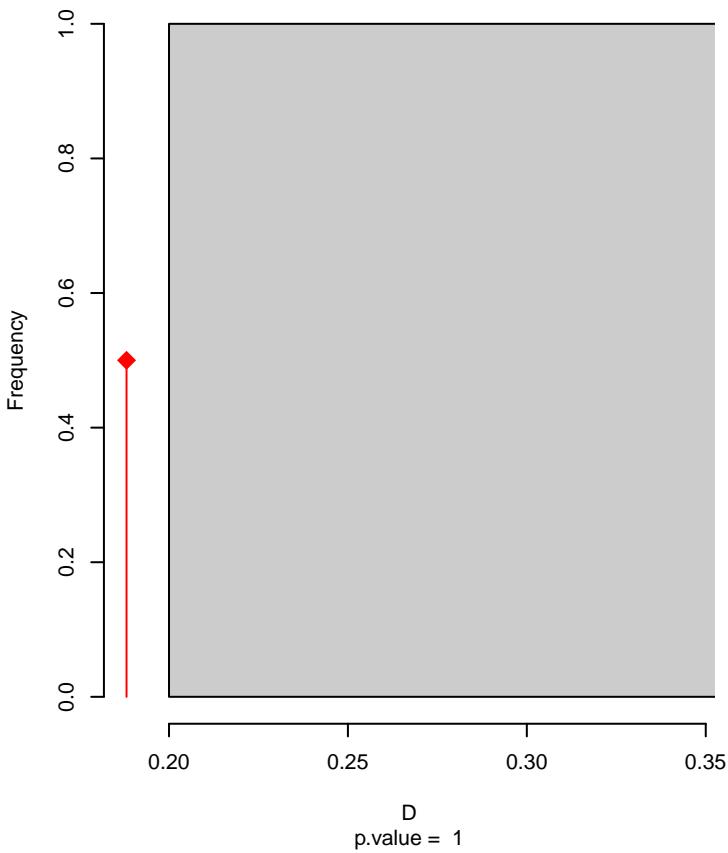
**Similarity 1→2**



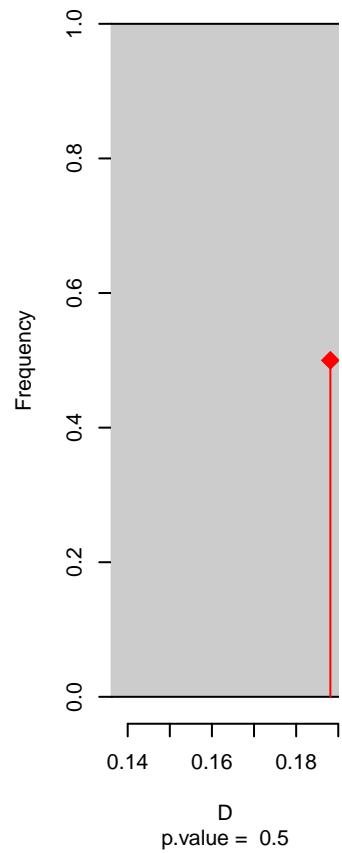
### Ptyonoprogne rupestris seasonal overlap



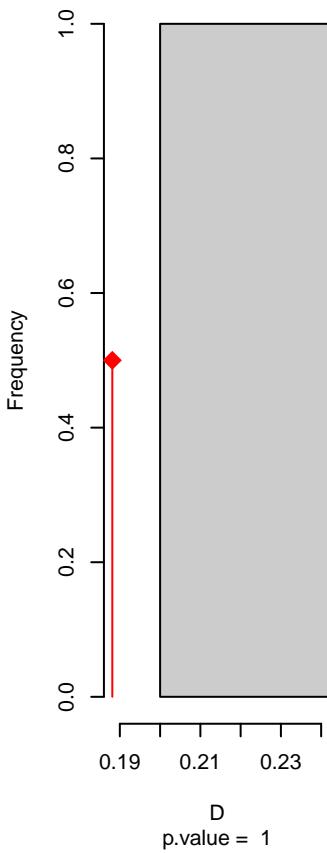
**Equivalency**



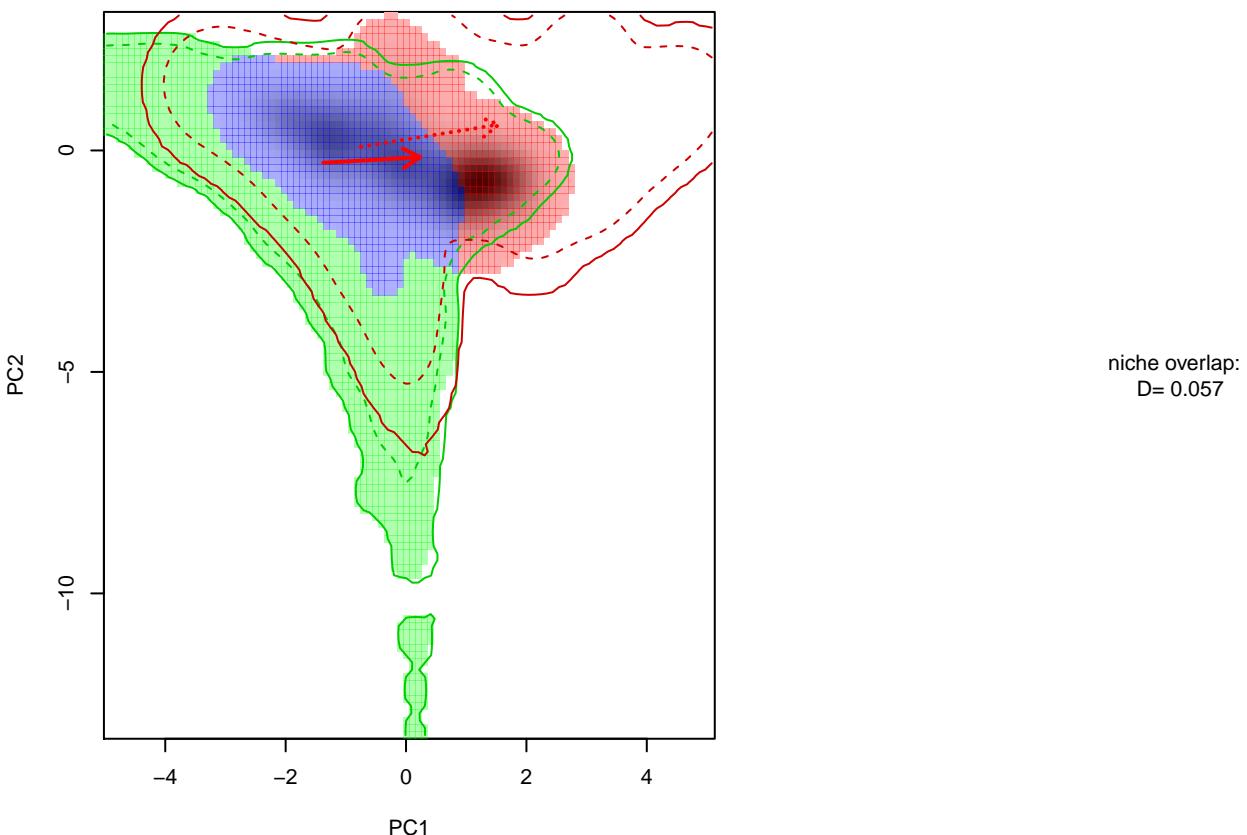
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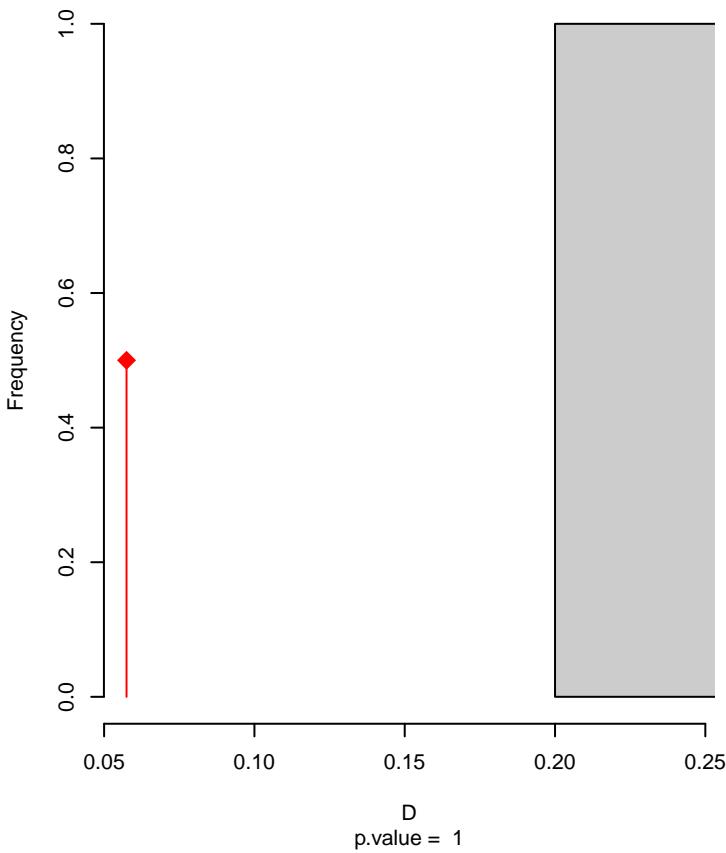
**Similarity 1→2**



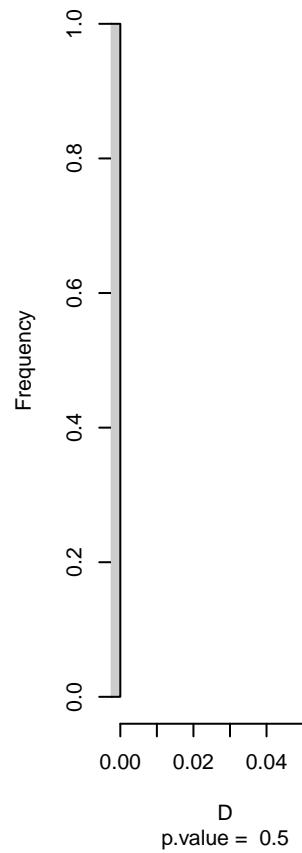
# Ptyonoprogne\_rupestris seasonal overlap-hypo.br



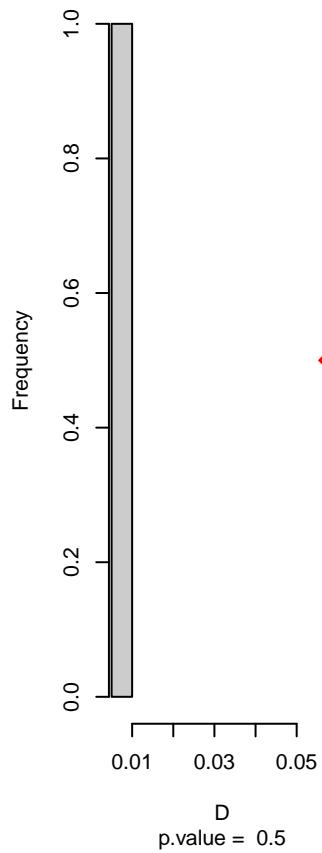
**Equivalency**



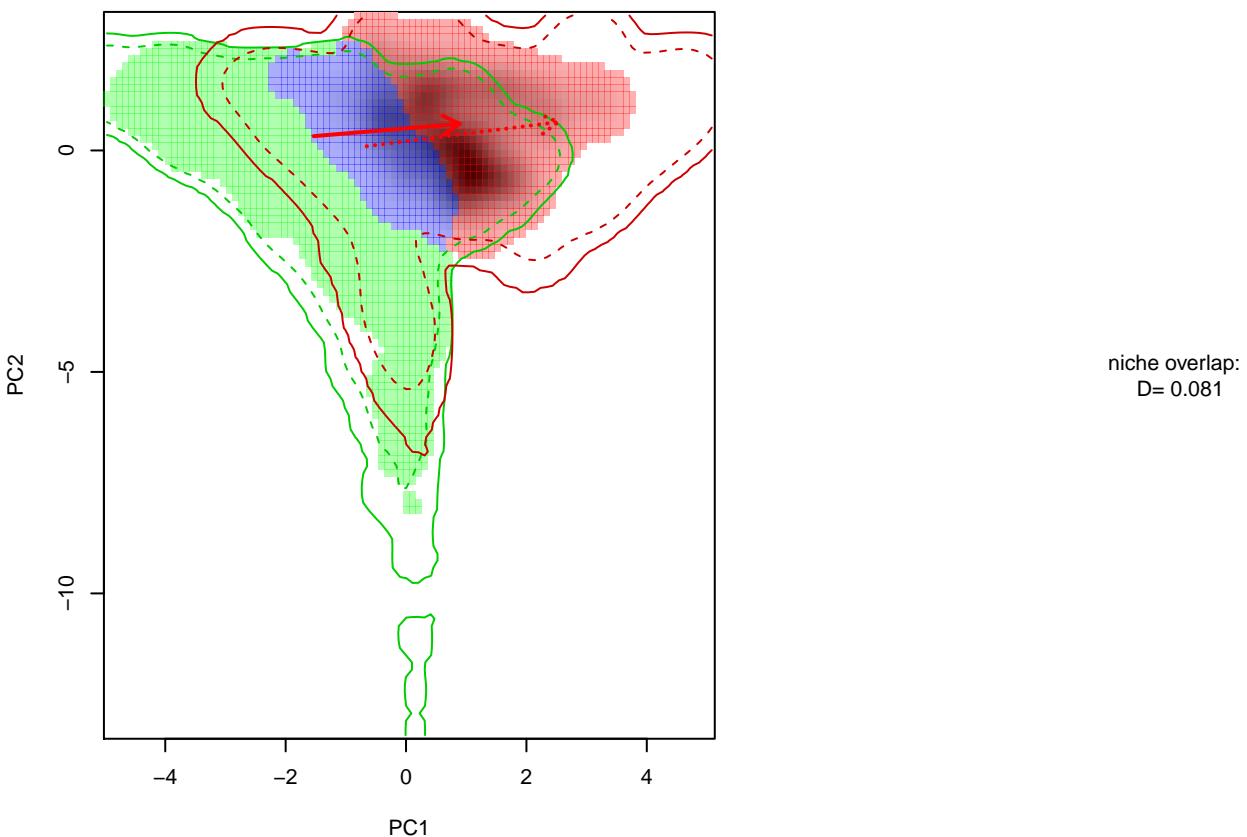
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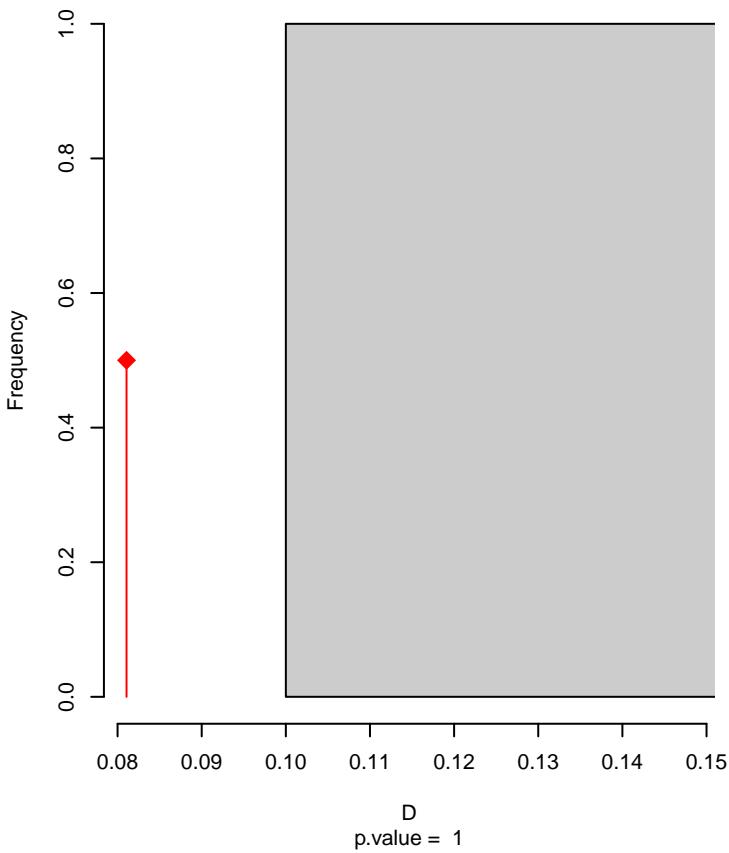
**Similarity 1→2**



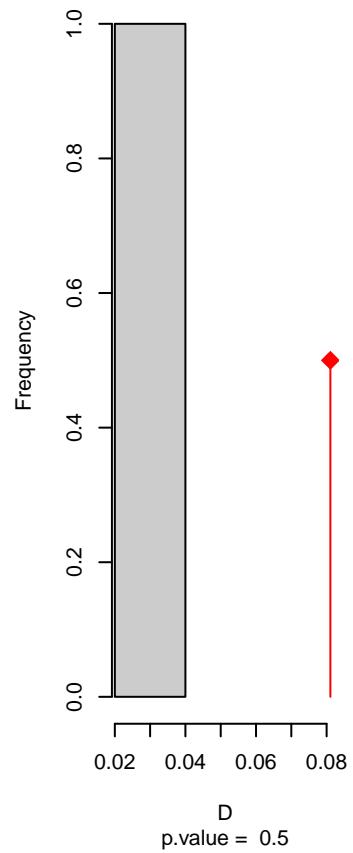
# Ptyonoprogne\_rupestris seasonal overlap-hypo wi



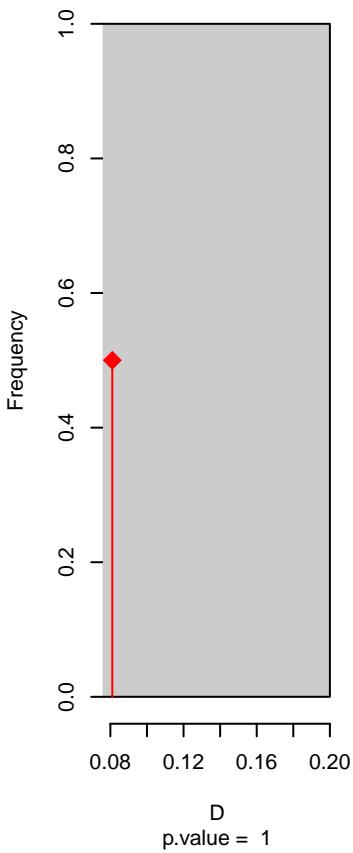
**Equivalency**



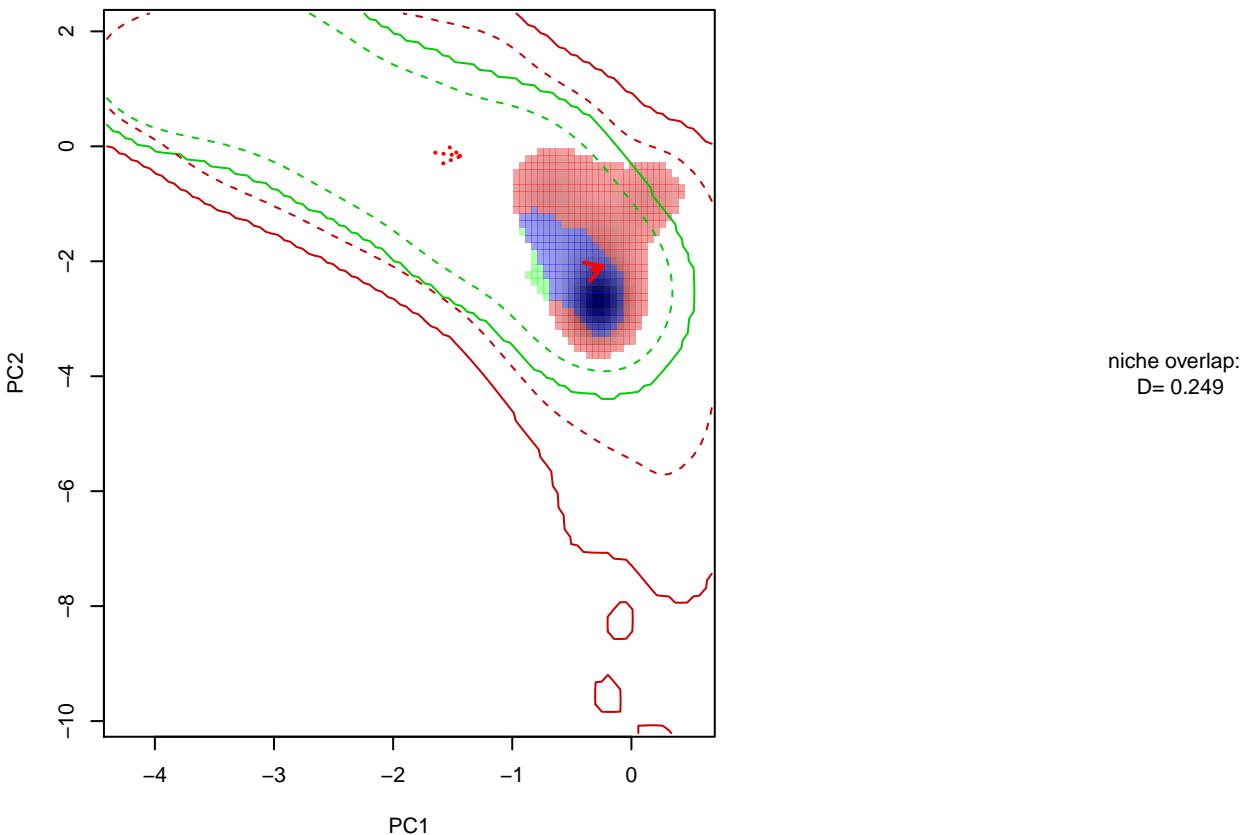
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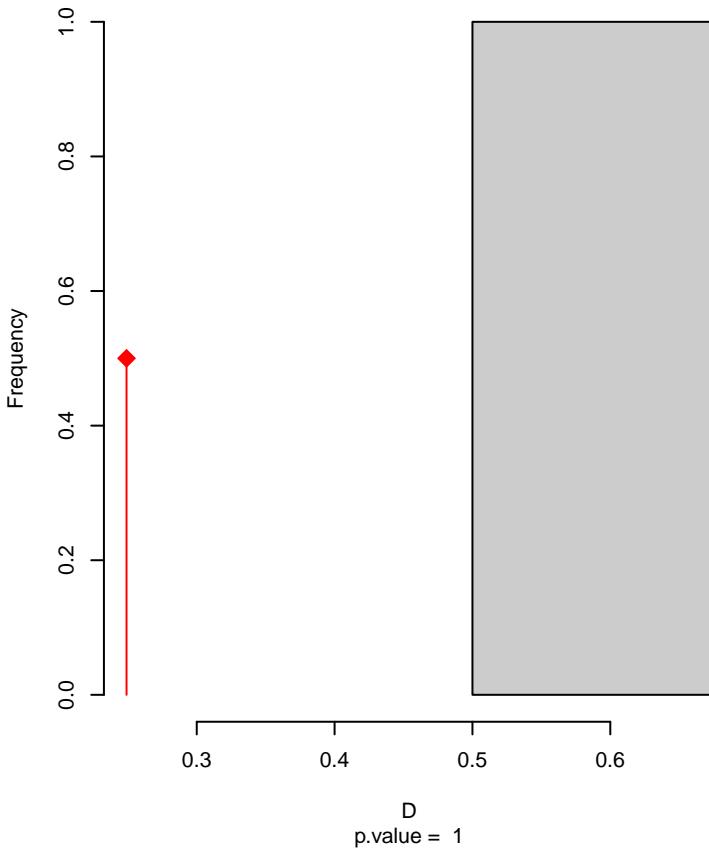
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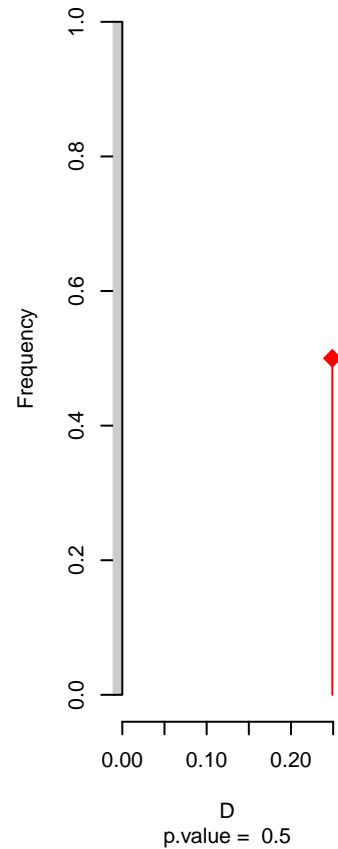
### Riparia\_congica seasonal overlap



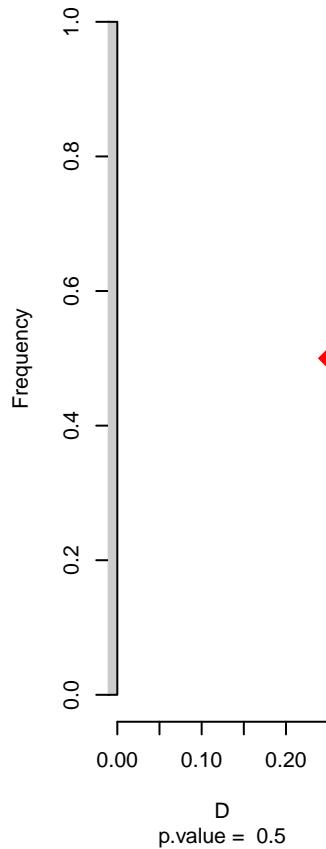
**Equivalency**



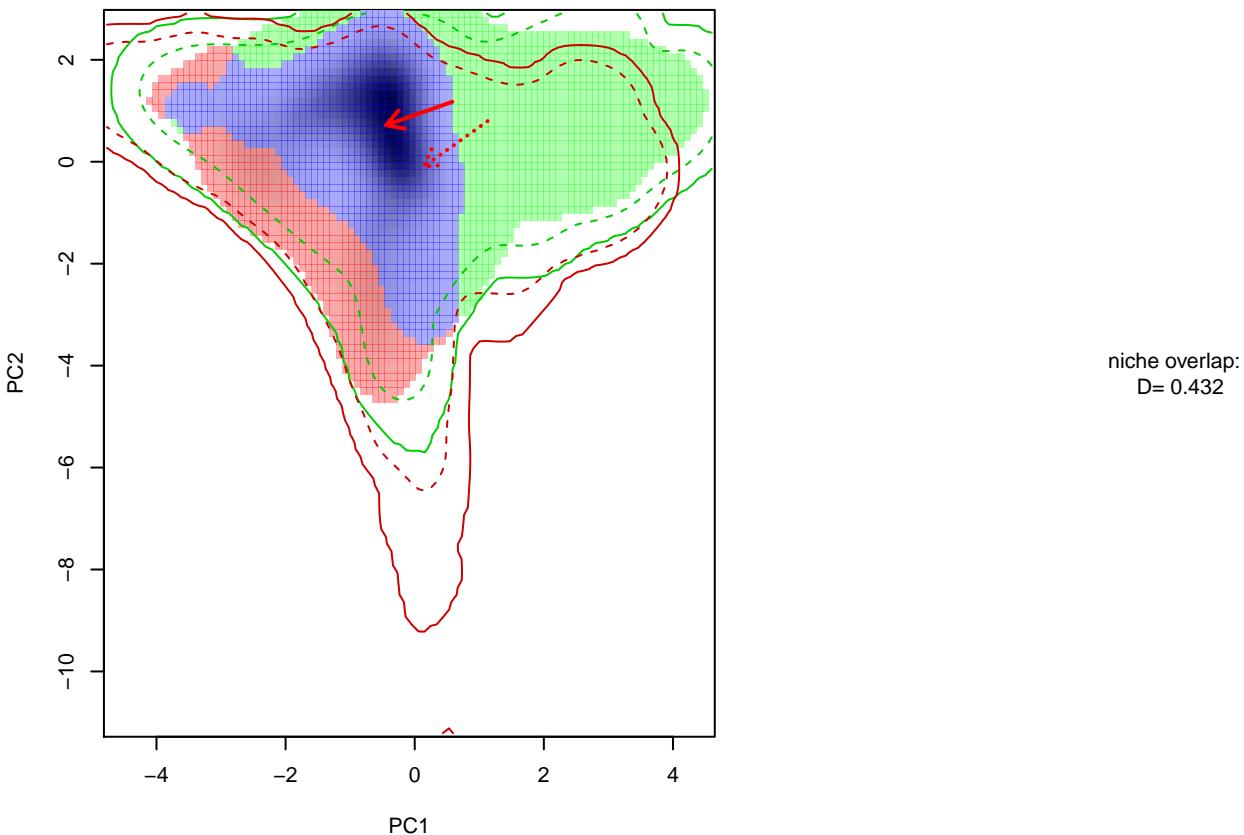
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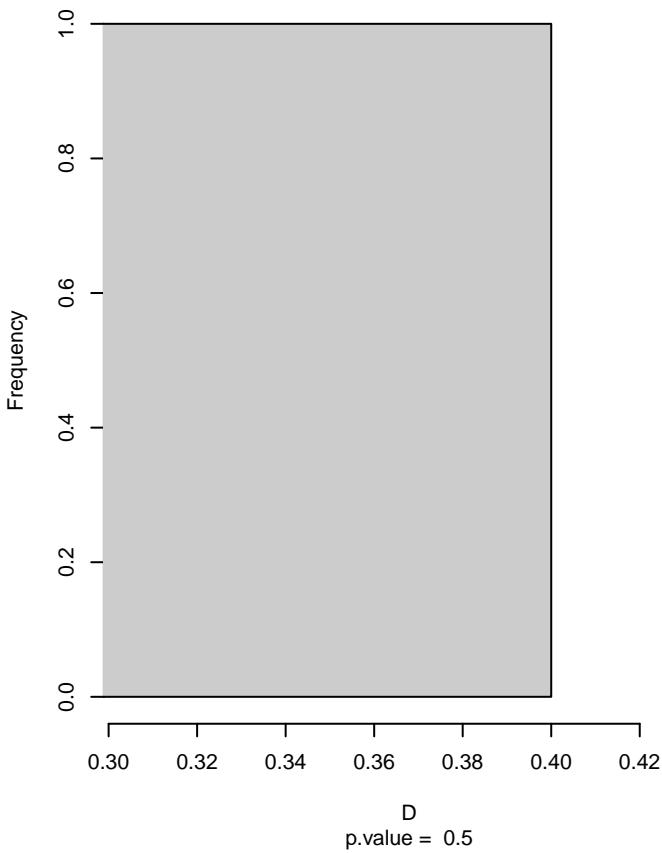
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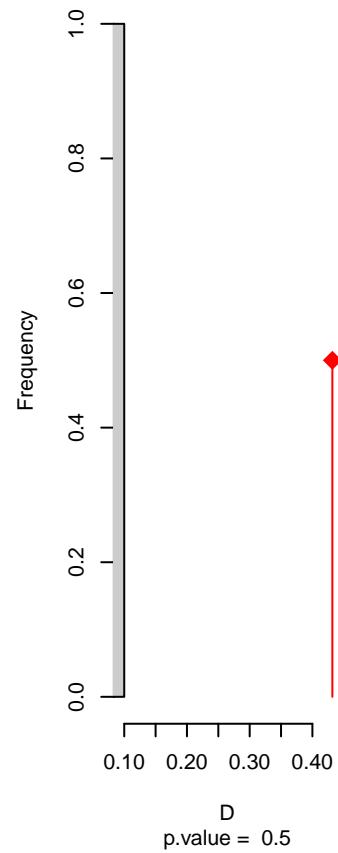
### Riparia\_diluta seasonal overlap



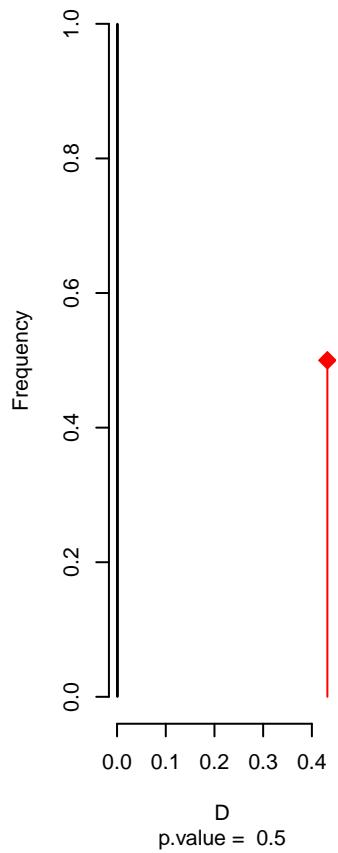
**Equivalency**



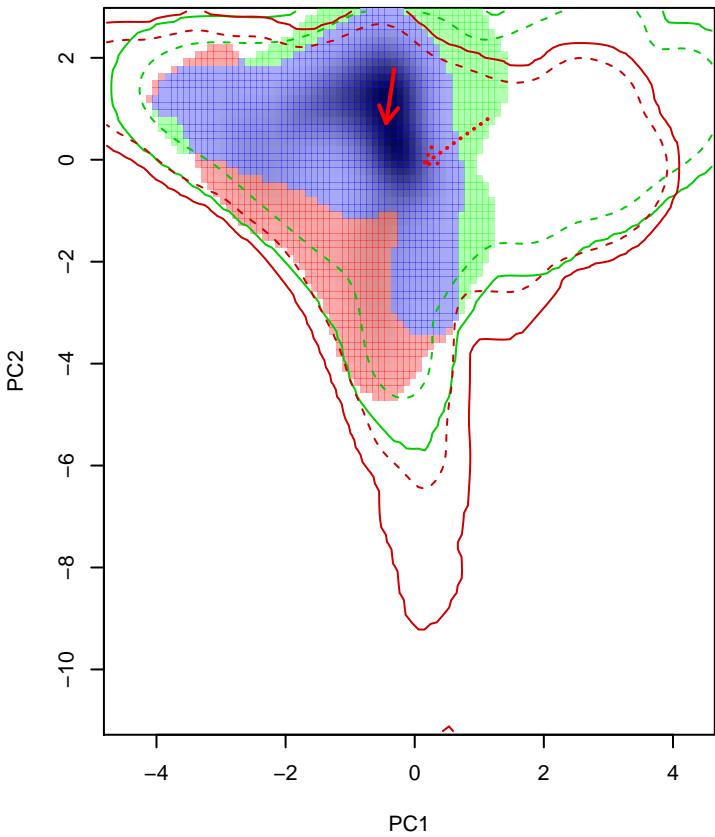
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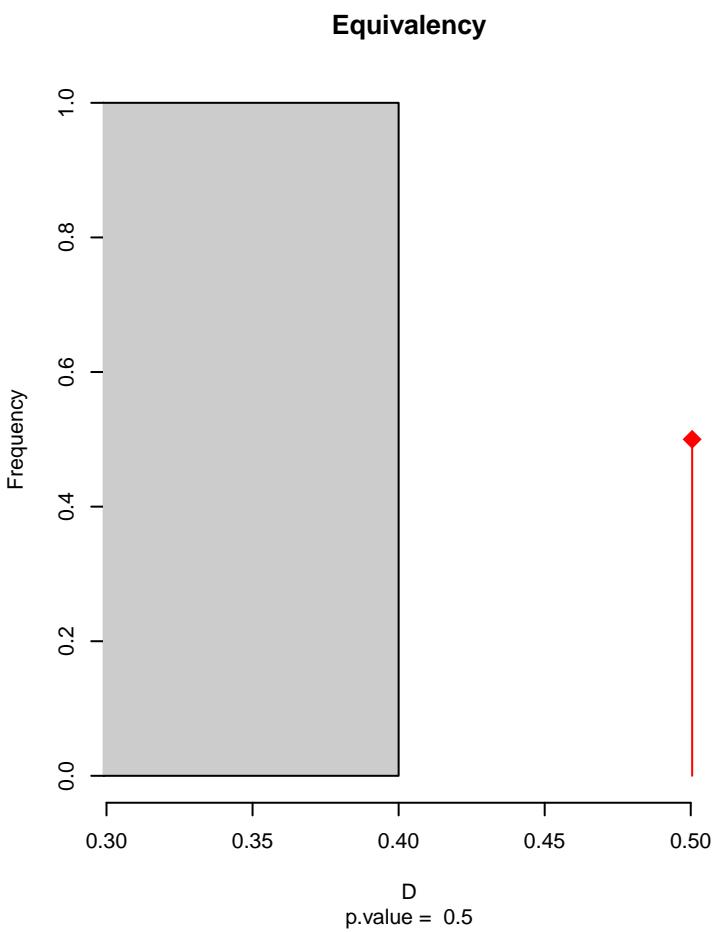
**Similarity 1→2**



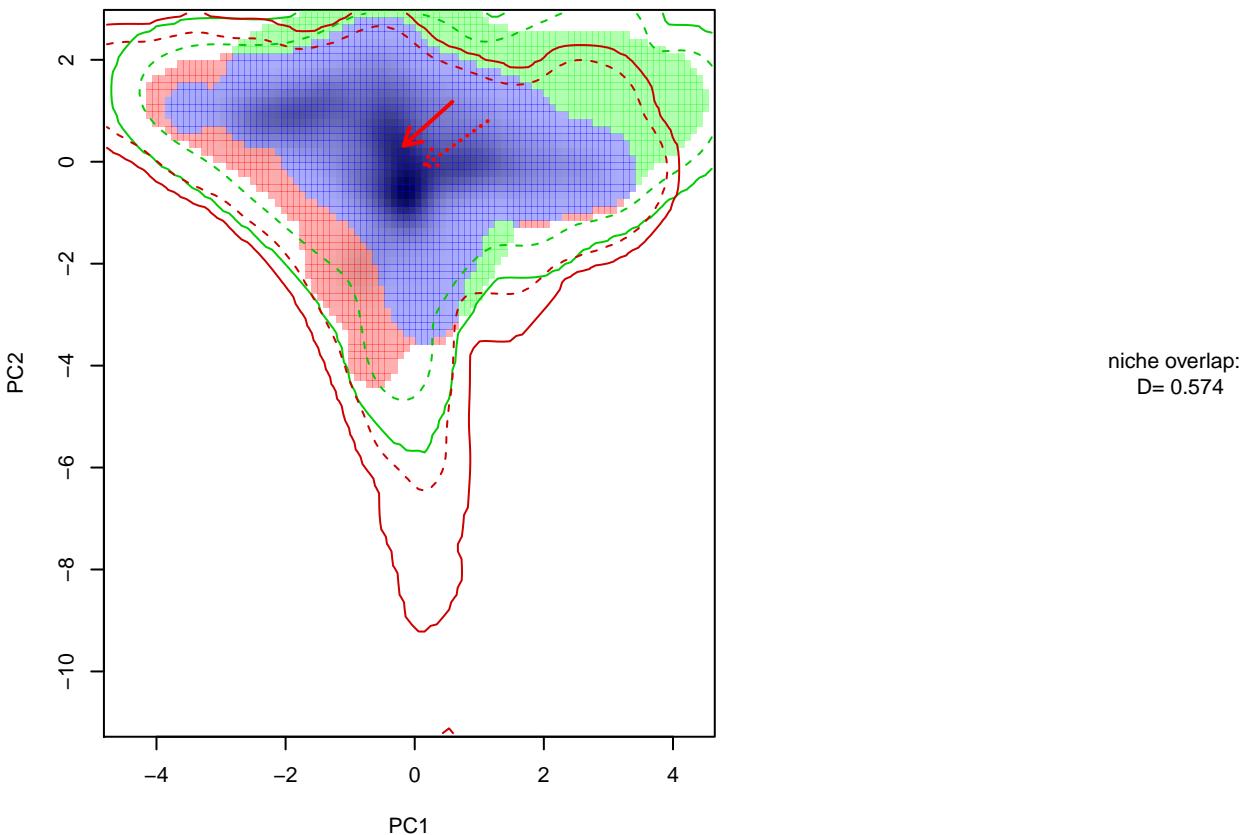
# Riparia\_diluta seasonal overlap–hypo.br



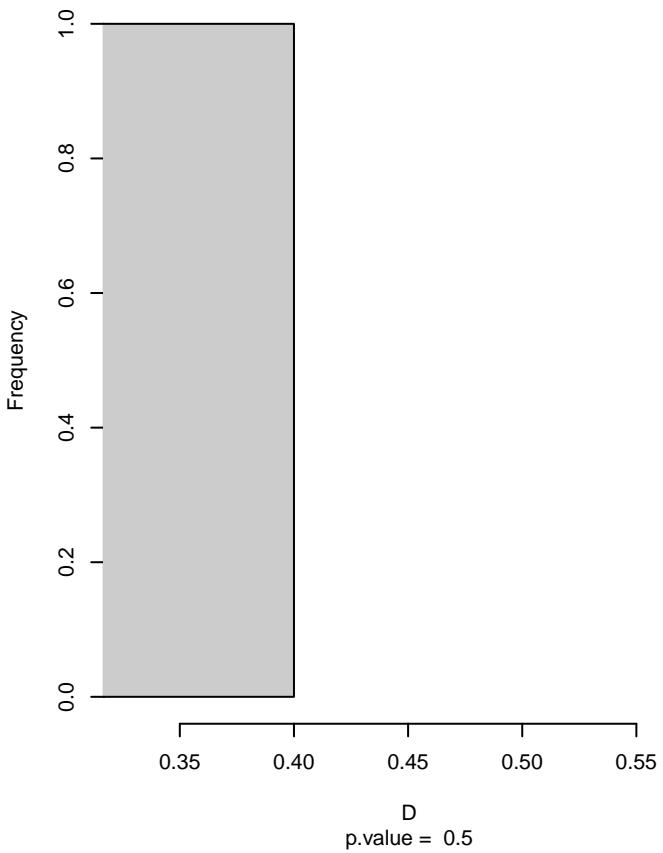
niche overlap:  
D= 0.5



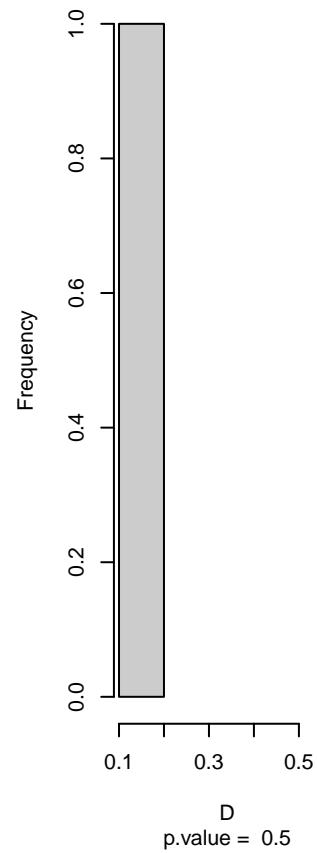
# Riparia\_diluta seasonal overlap–hypo wi



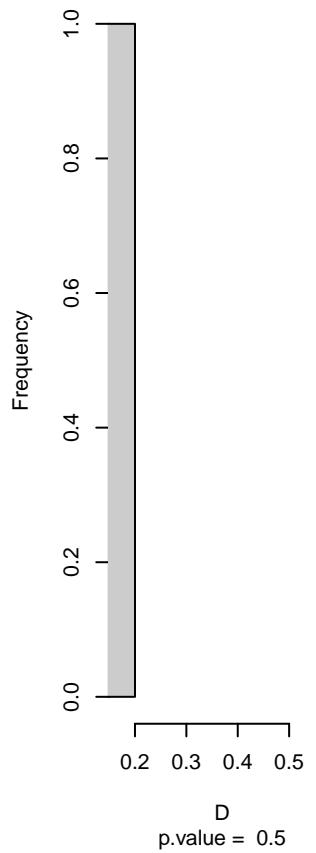
Equivalency



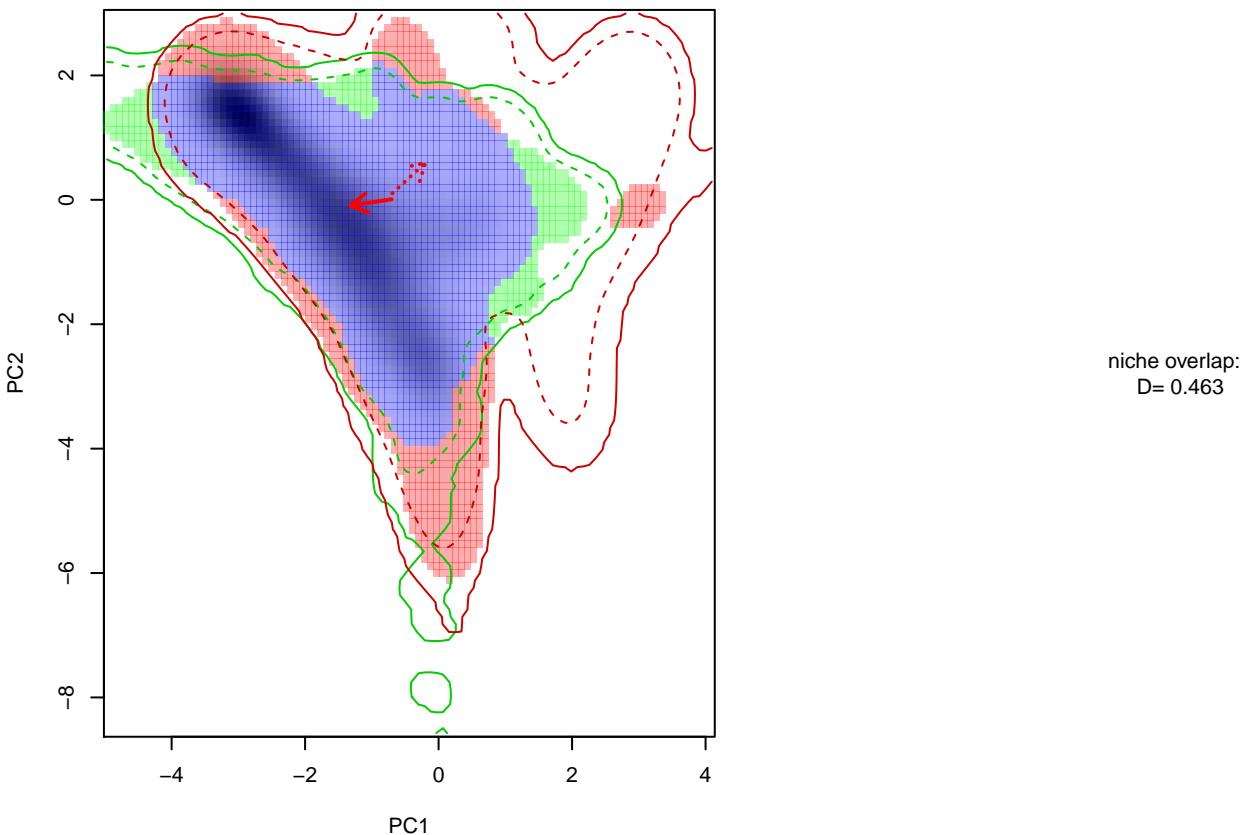
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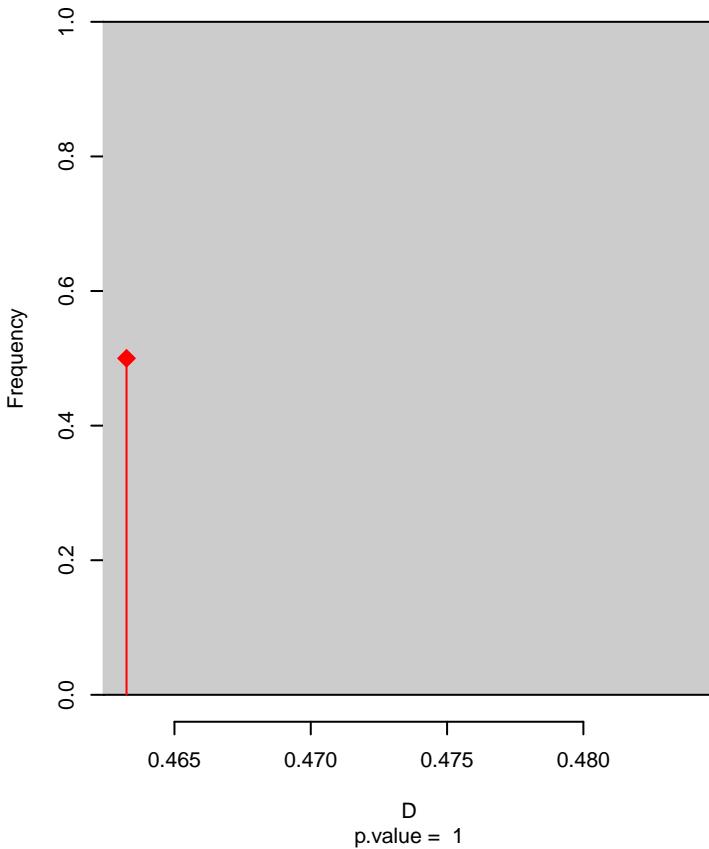
Similarity 1→2



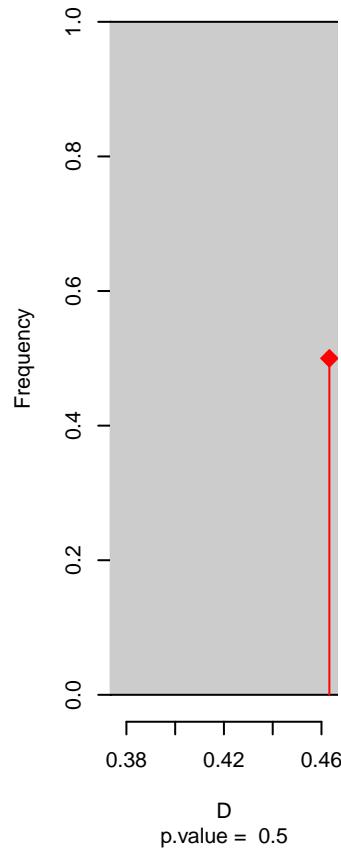
### Riparia\_riparia seasonal overlap



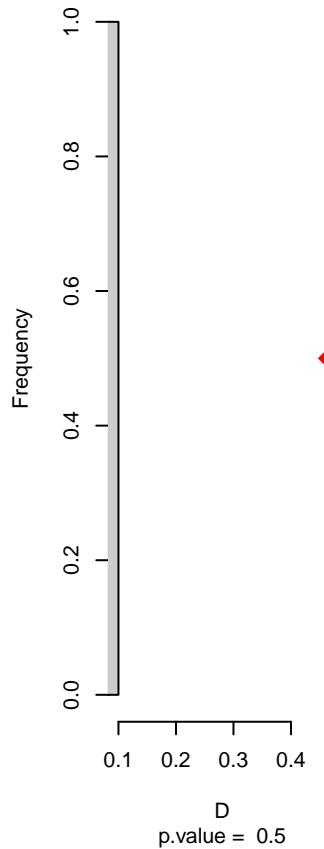
**Equivalency**



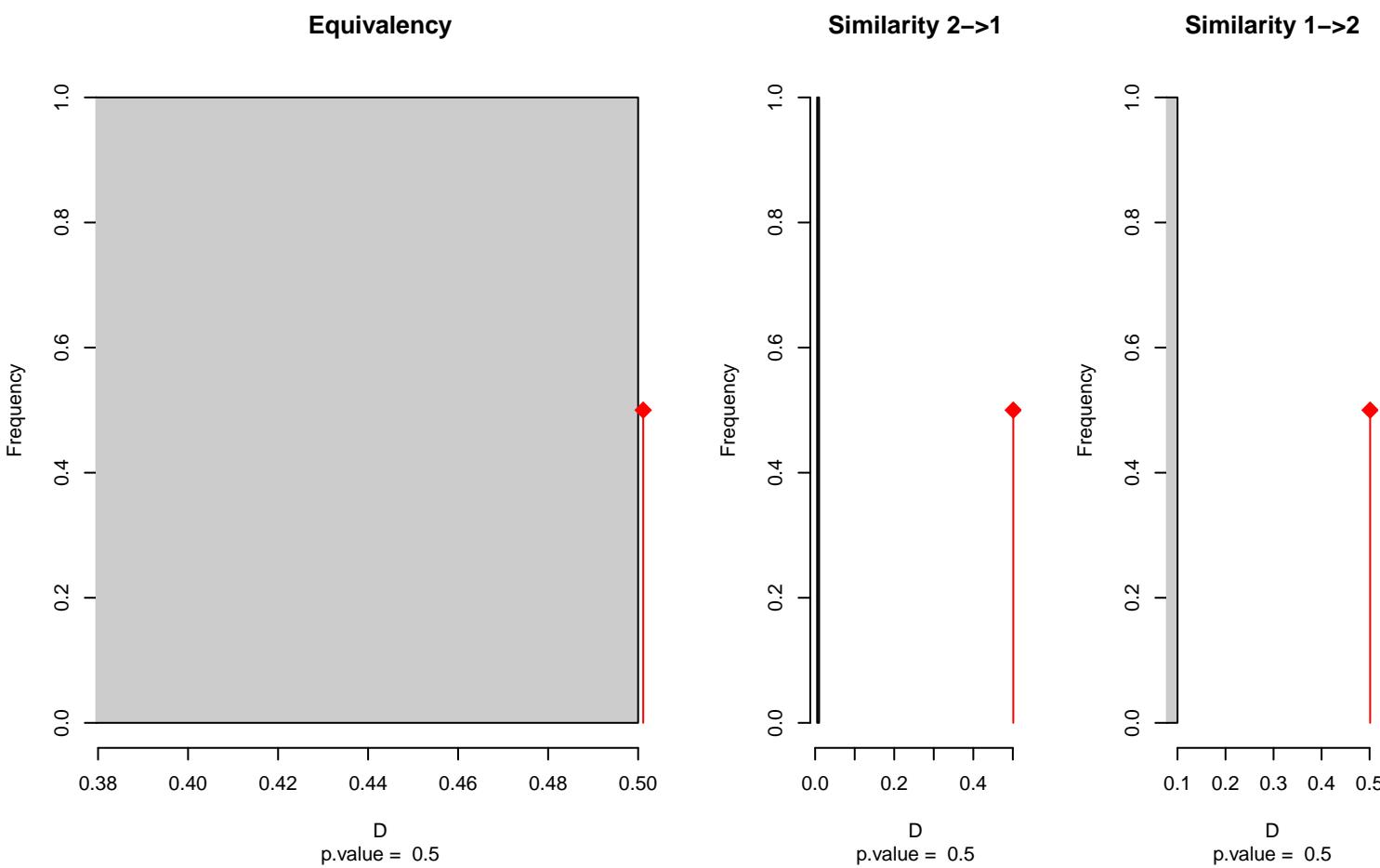
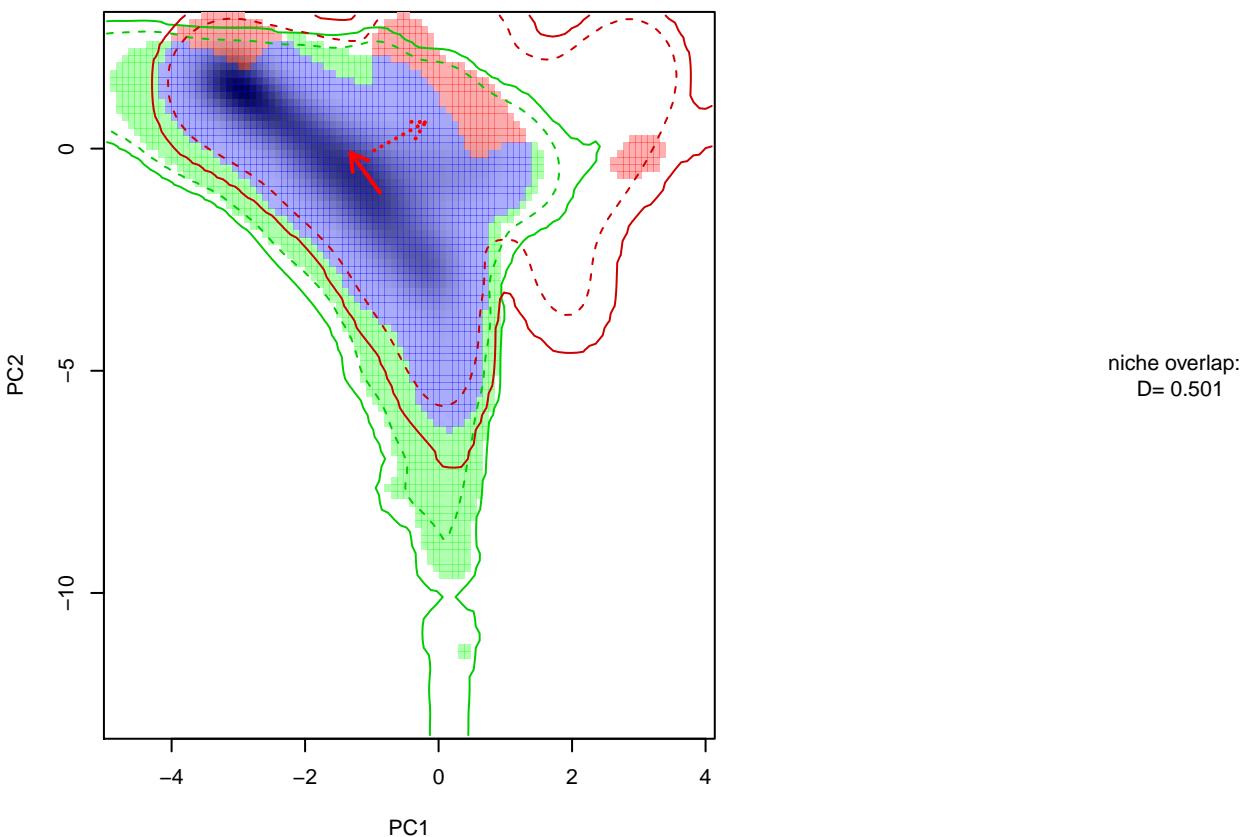
**Similarity 2→1**



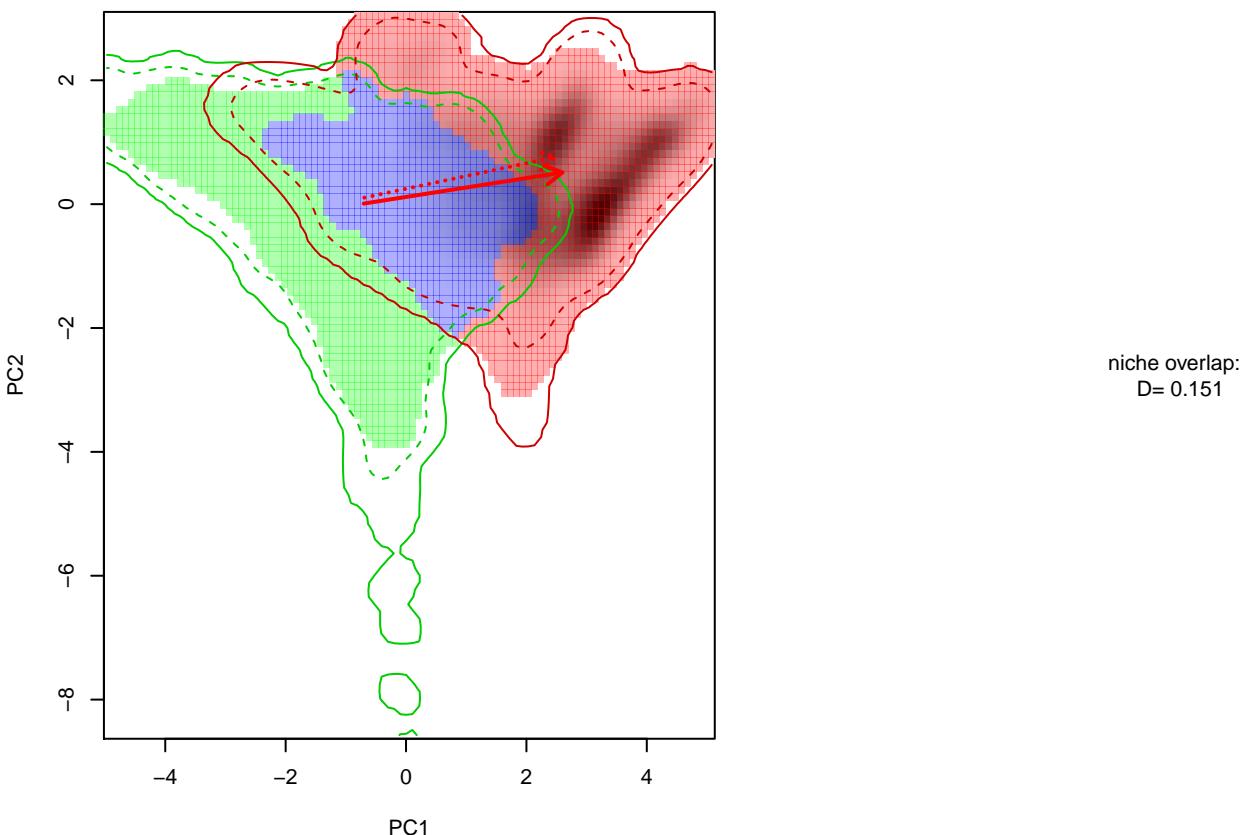
**Similarity 1→2**



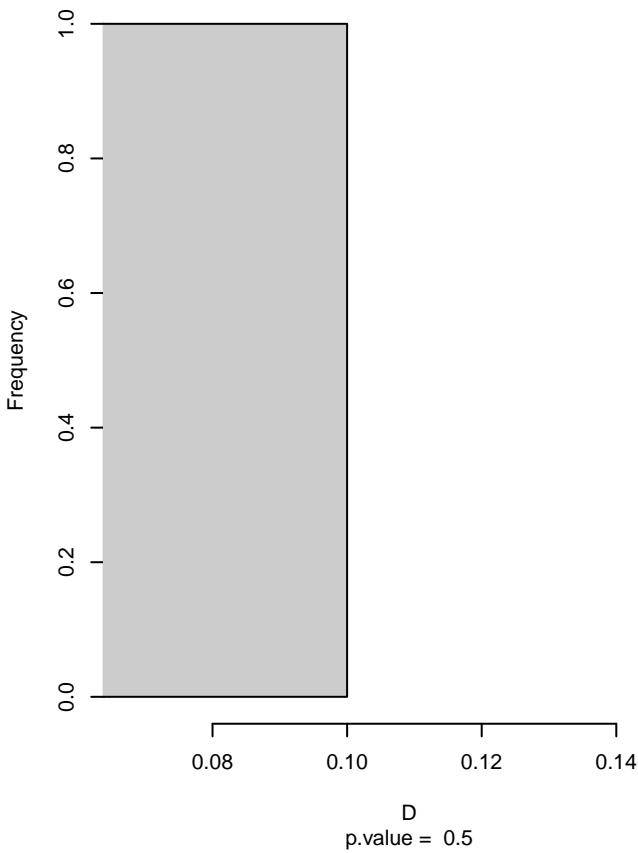
# Riparia\_riparia seasonal overlap-hypo.br



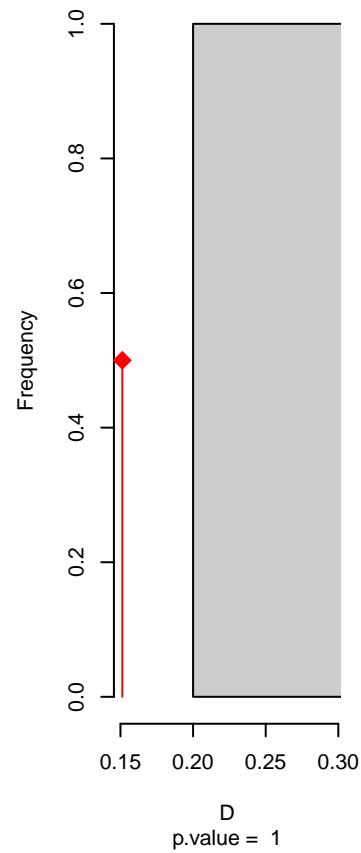
# Riparia\_riparia seasonal overlap-hypo wi



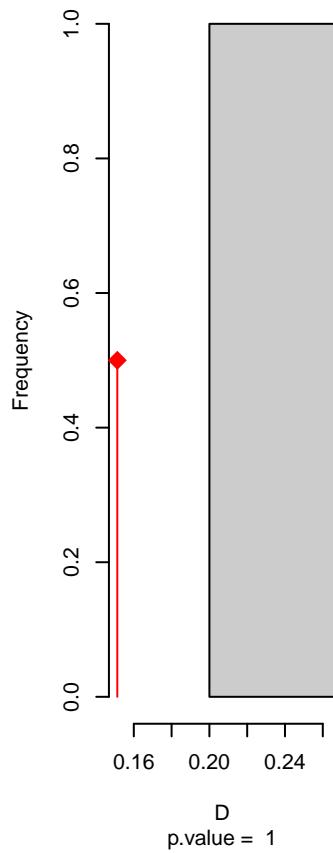
**Equivalency**



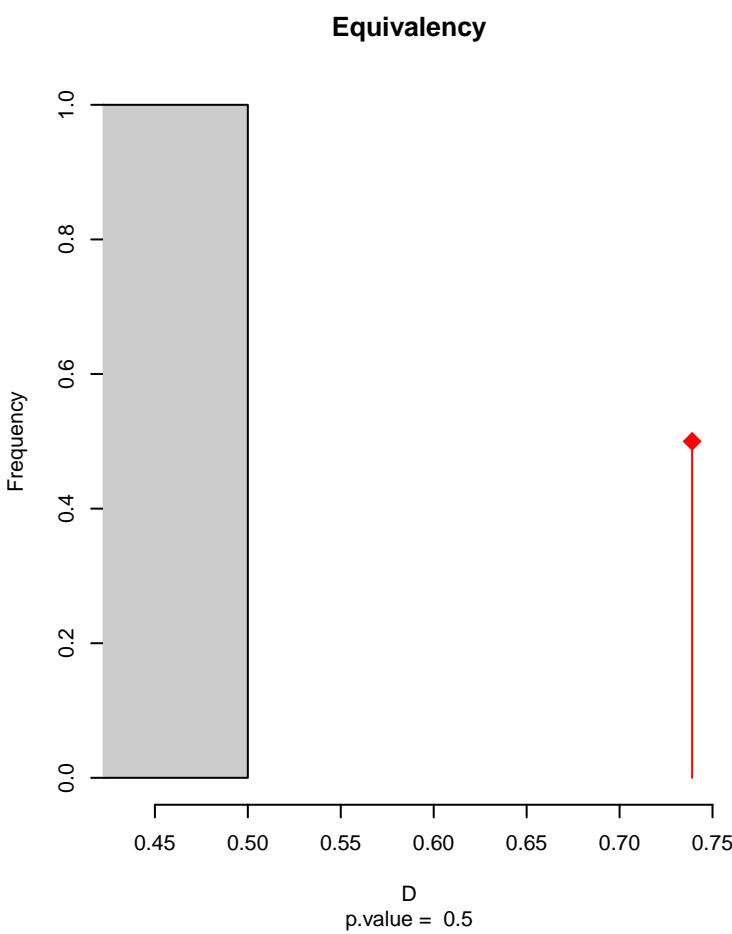
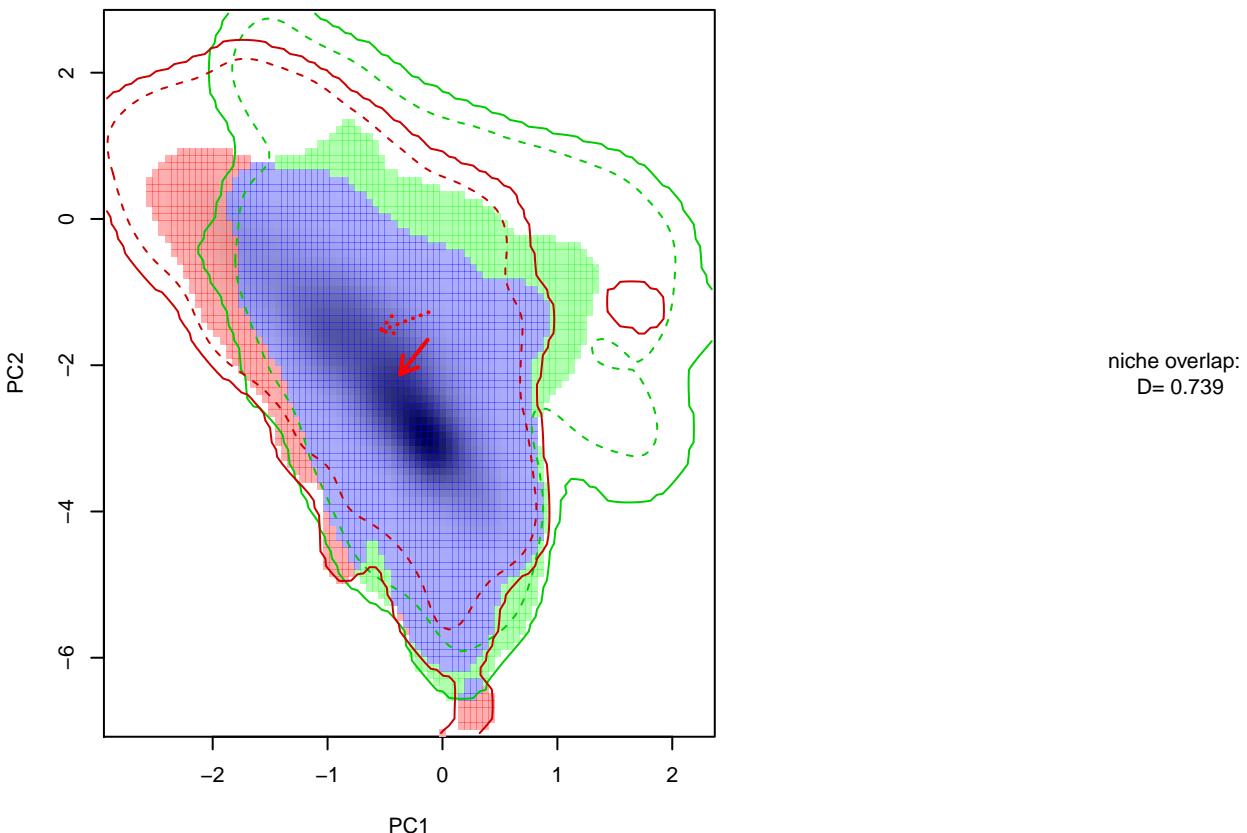
**Similarity 2→1**



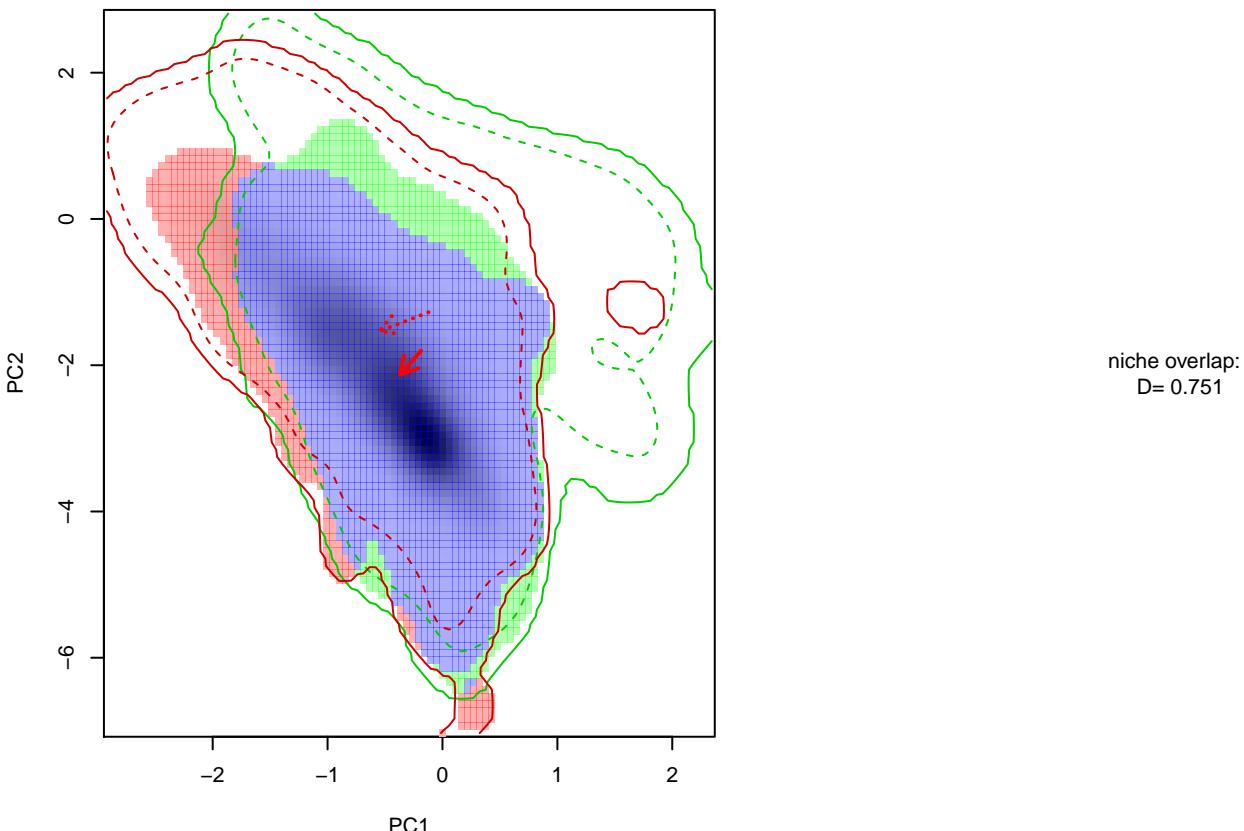
**Similarity 1→2**



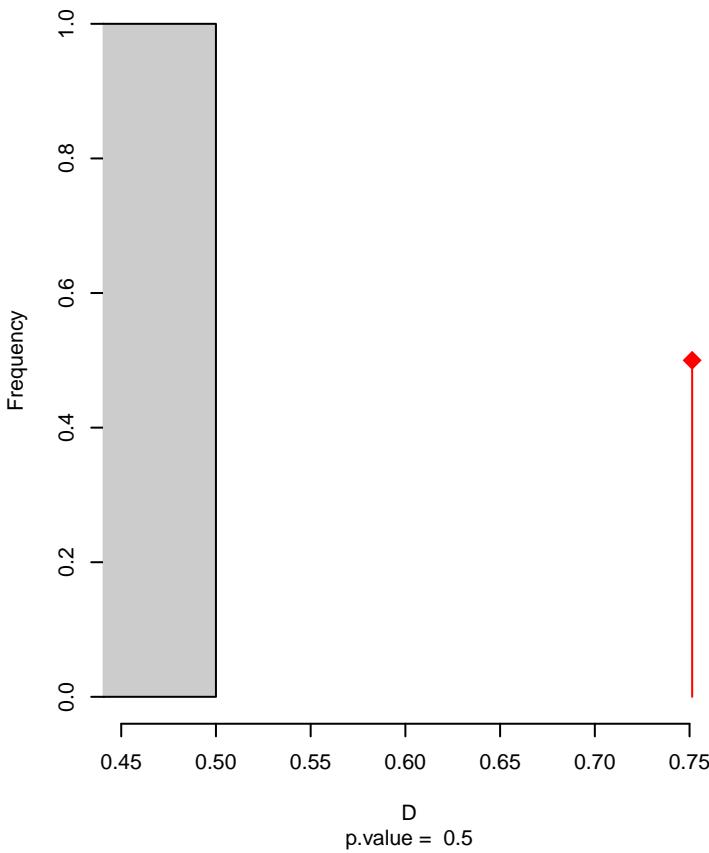
### *Stelgidopteryx\_ruficollis* seasonal overlap



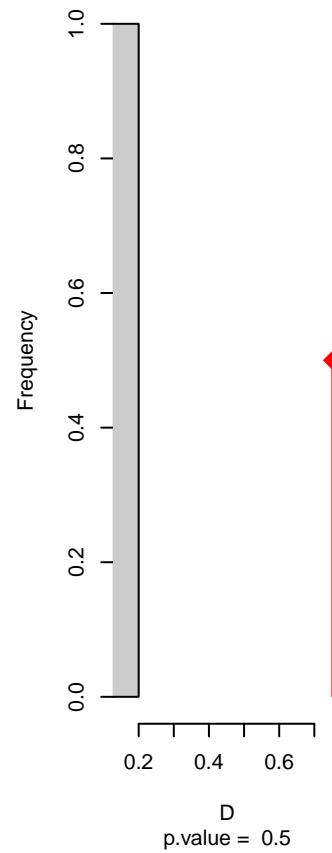
***Stelgidopteryx\_ruficollis* seasonal overlap-hypo.br**



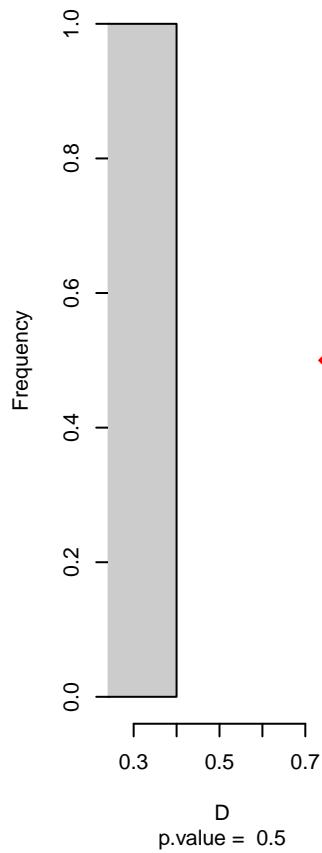
**Equivalency**



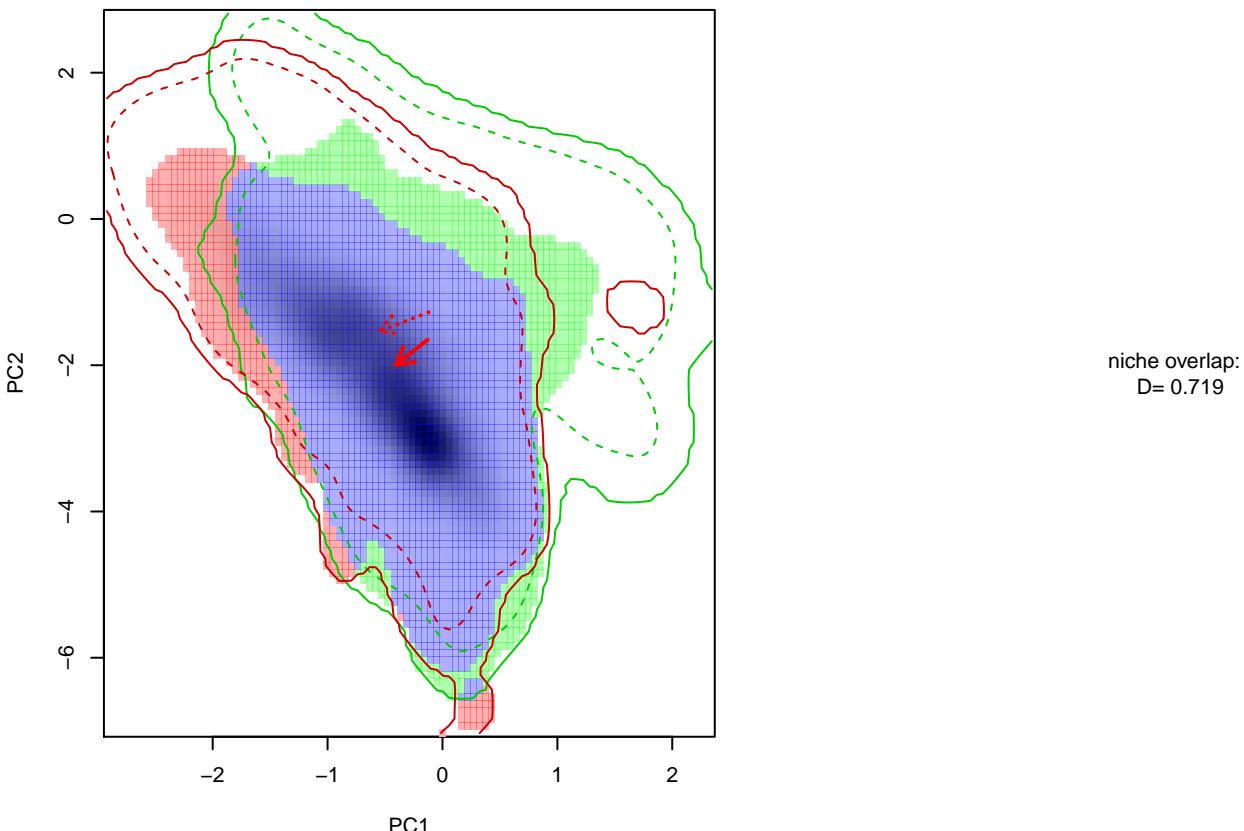
**Similarity 2→1**



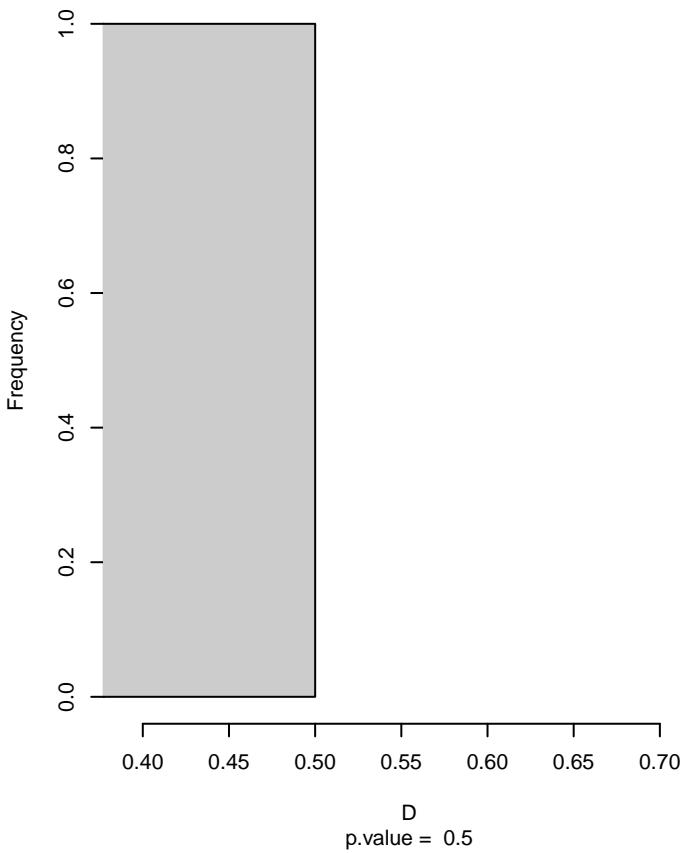
**Similarity 1→2**



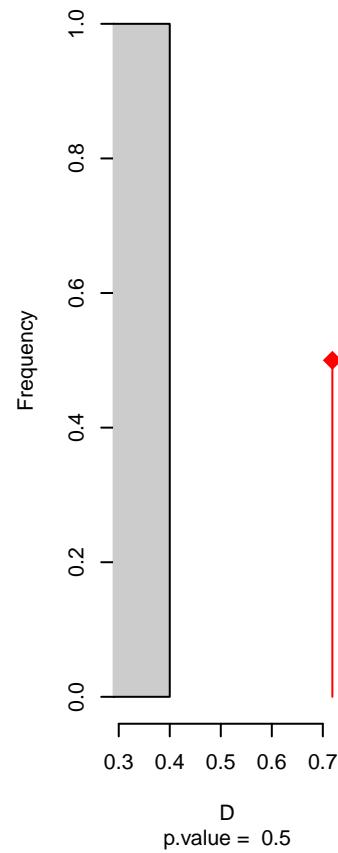
# *Stelgidopteryx\_ruficollis* seasonal overlap-hypo wi



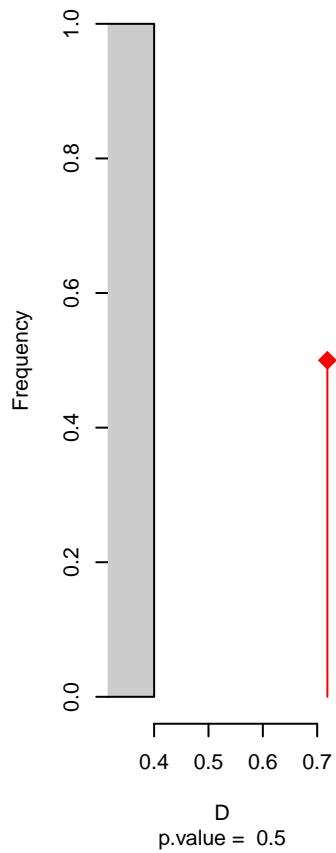
Equivalency



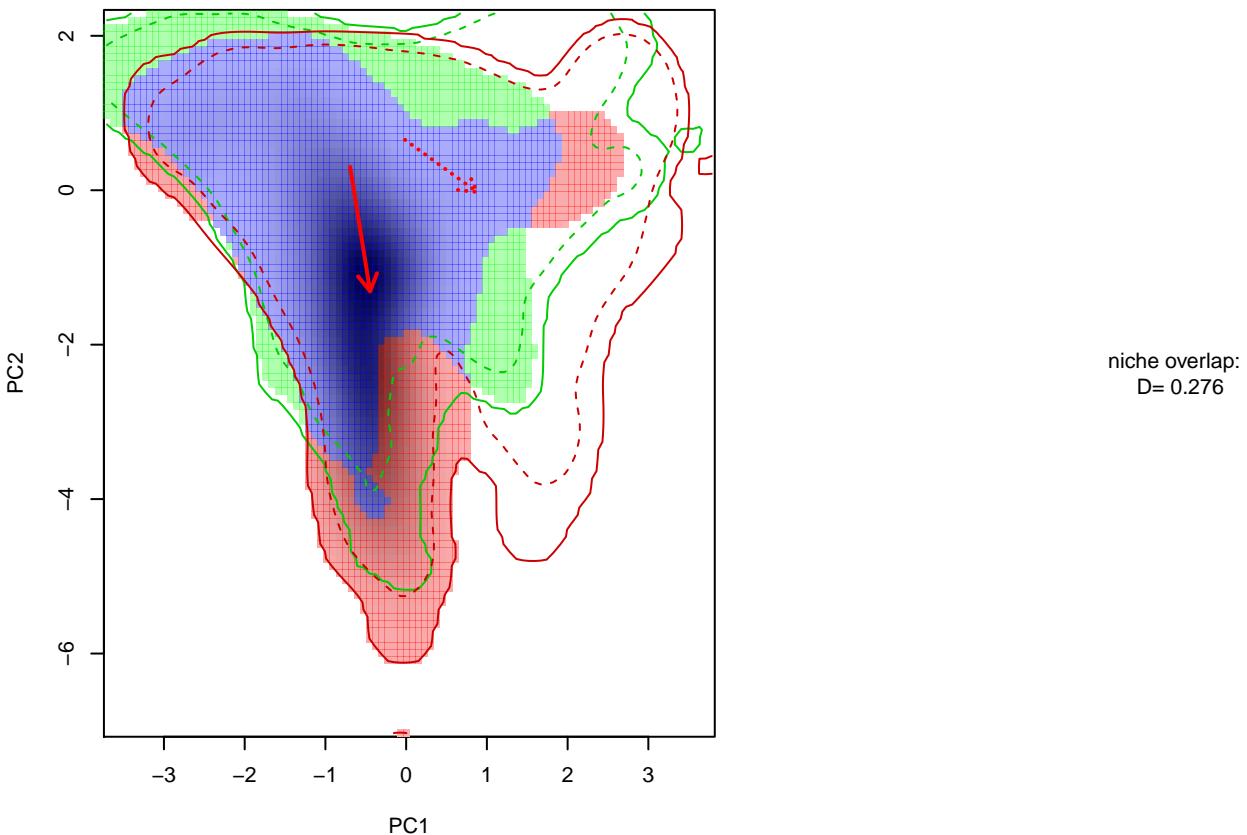
Similarity 2→1



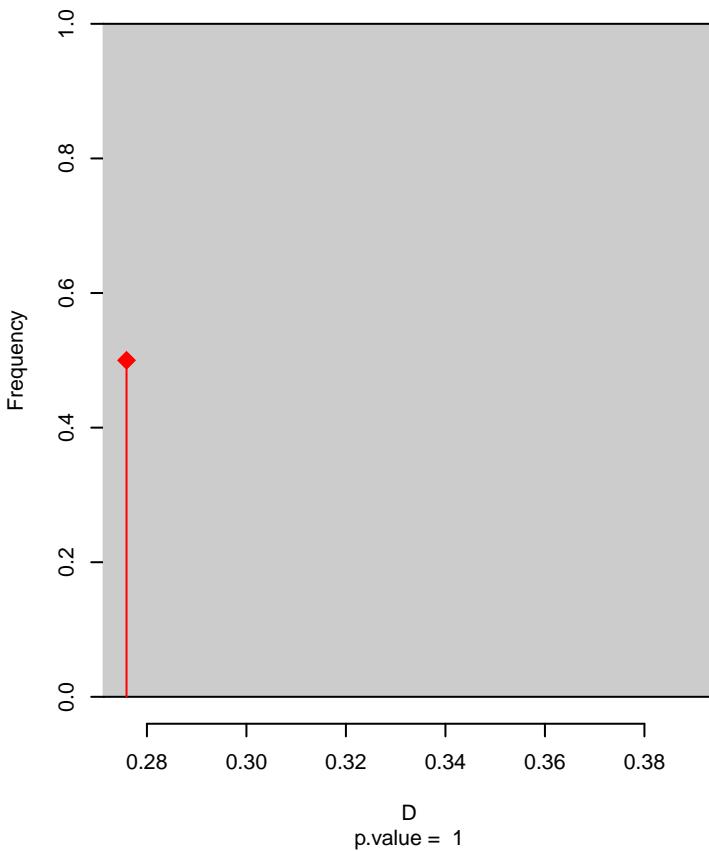
Similarity 1→2



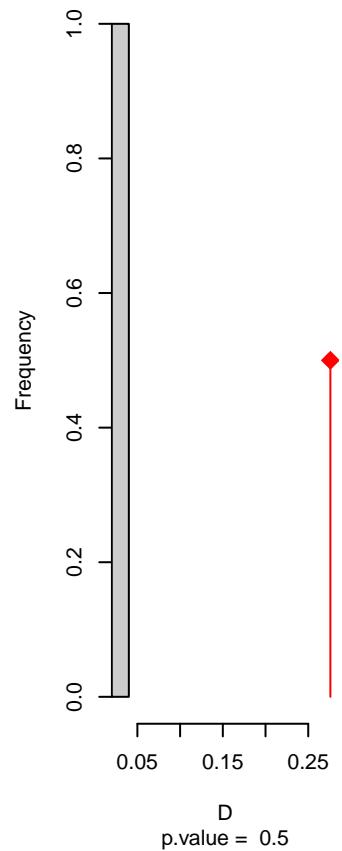
### Stelgidopteryx\_serripennis seasonal overlap



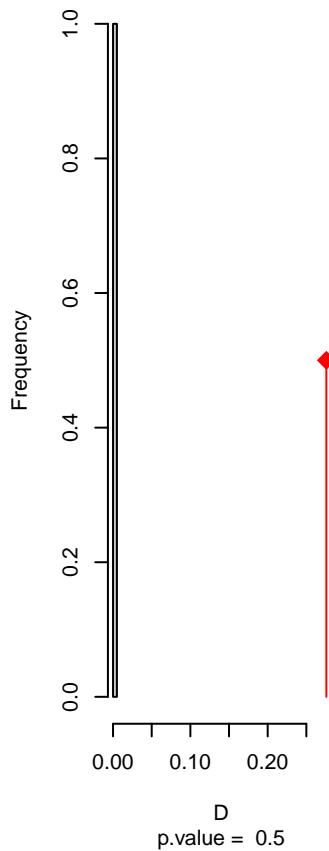
**Equivalency**



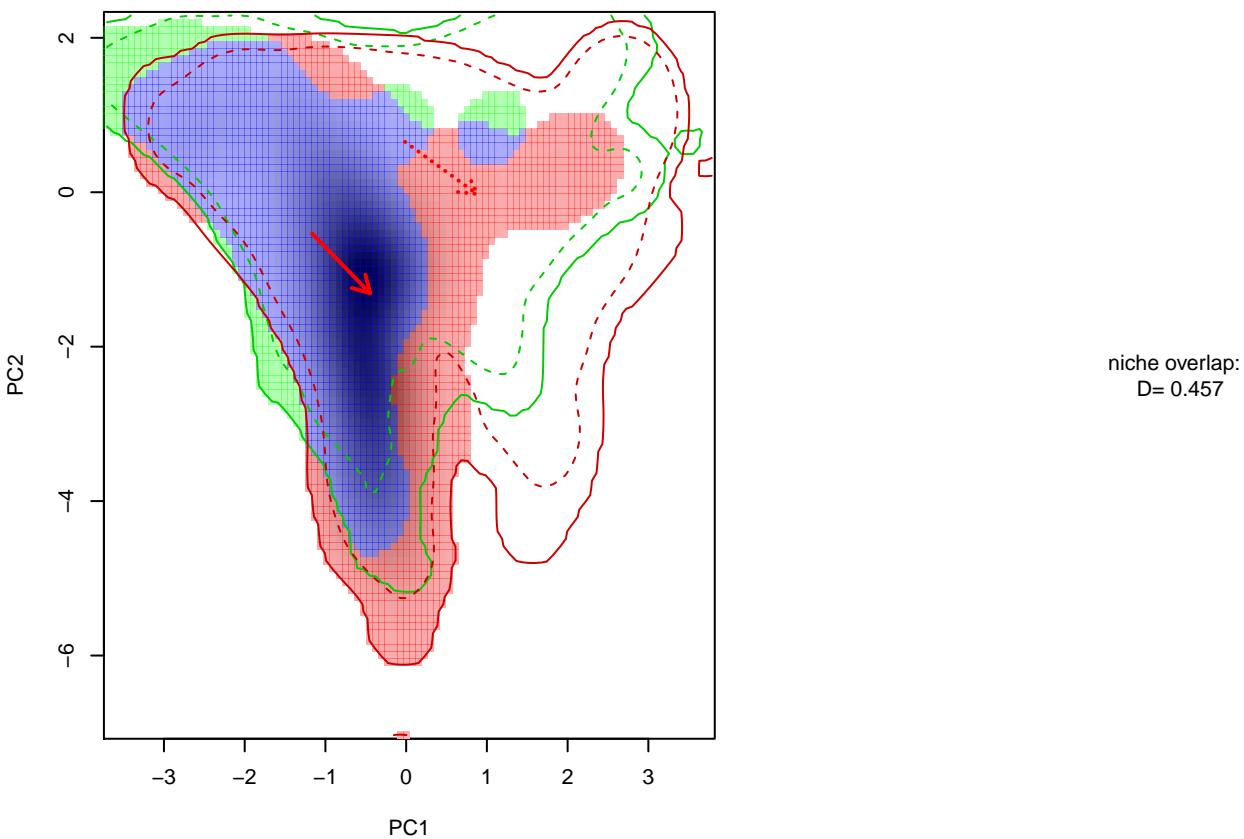
**Similarity 2→1**



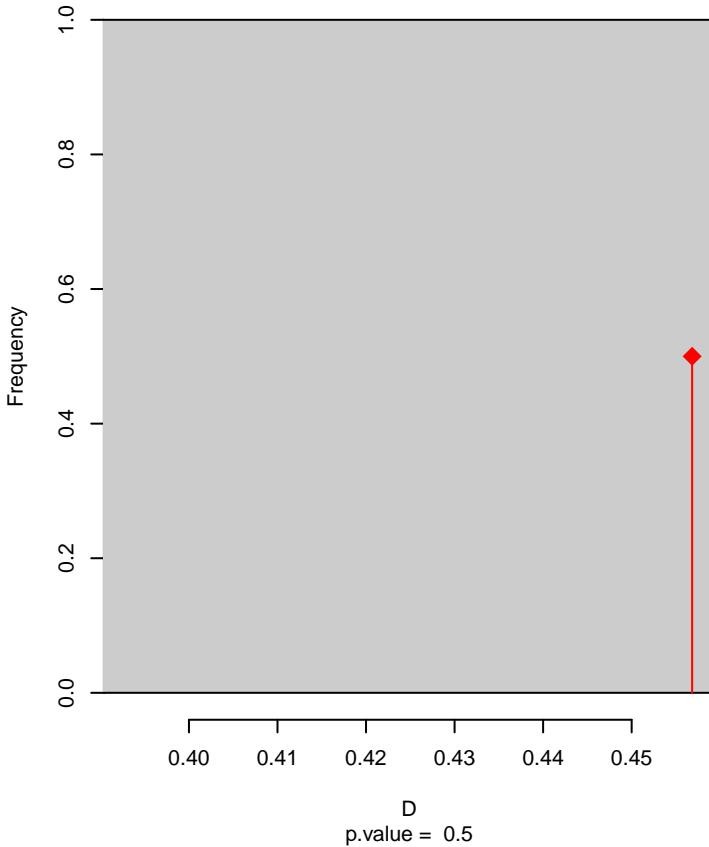
**Similarity 1→2**



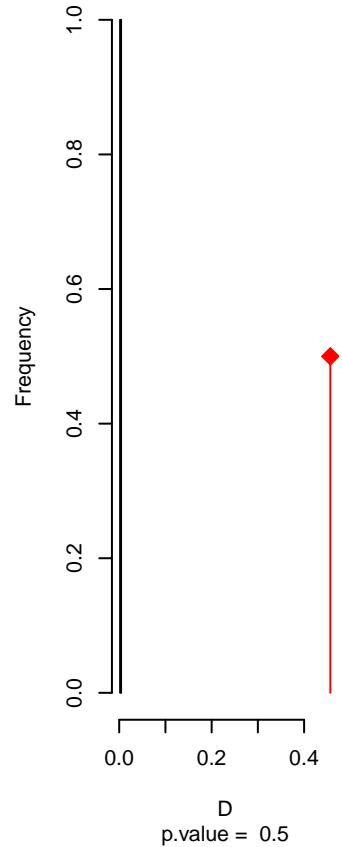
***Stelgidopteryx serripennis* seasonal overlap–hypo.br**



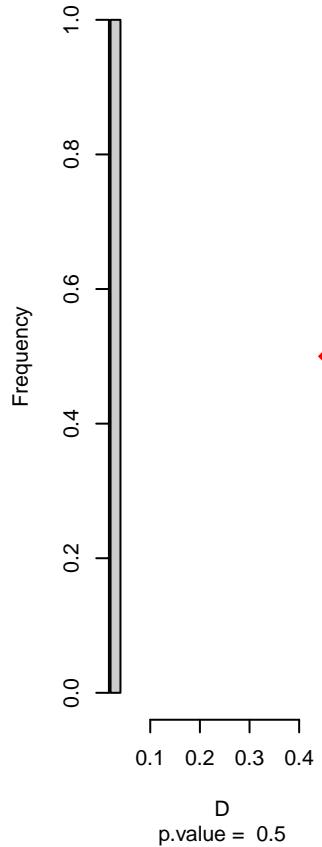
**Equivalency**



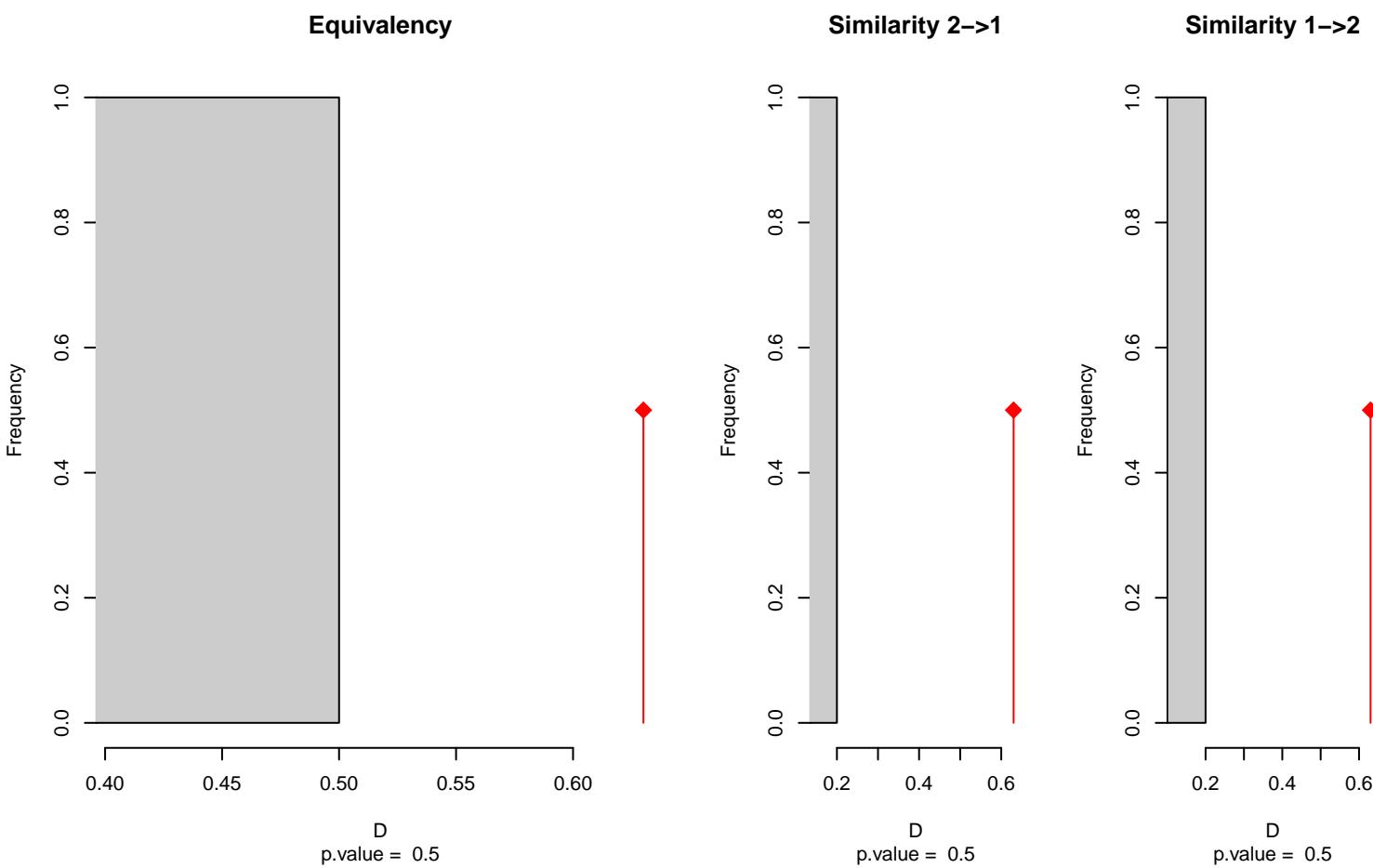
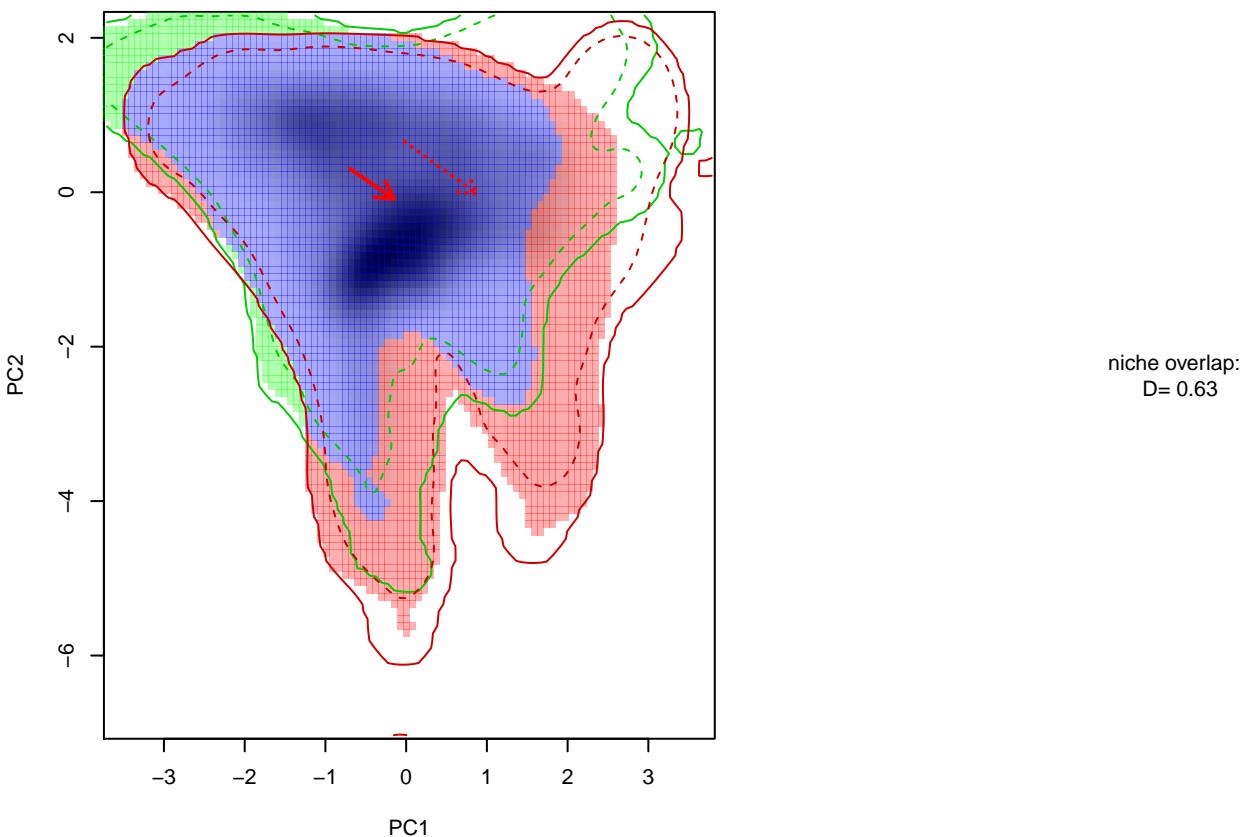
**Similarity 2→1**



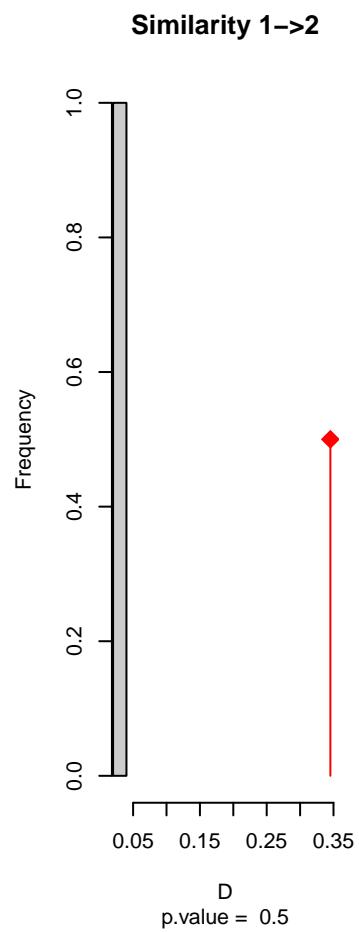
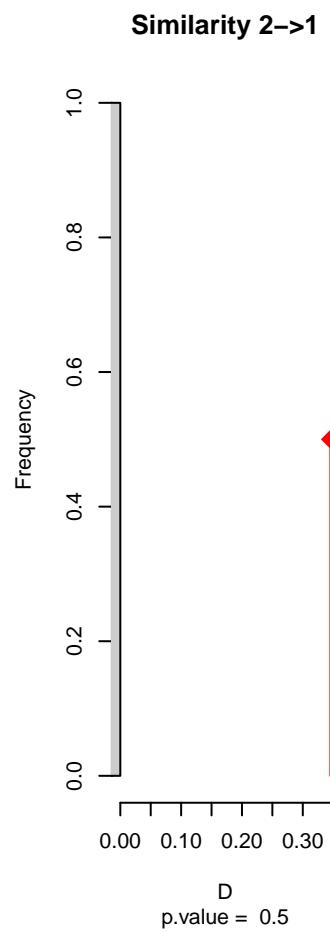
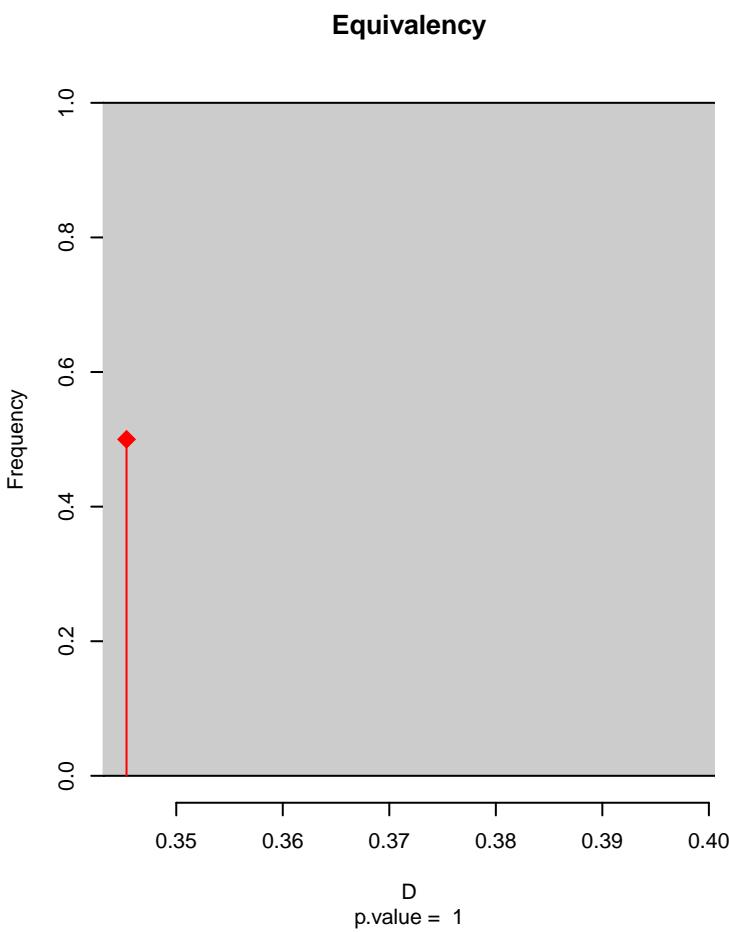
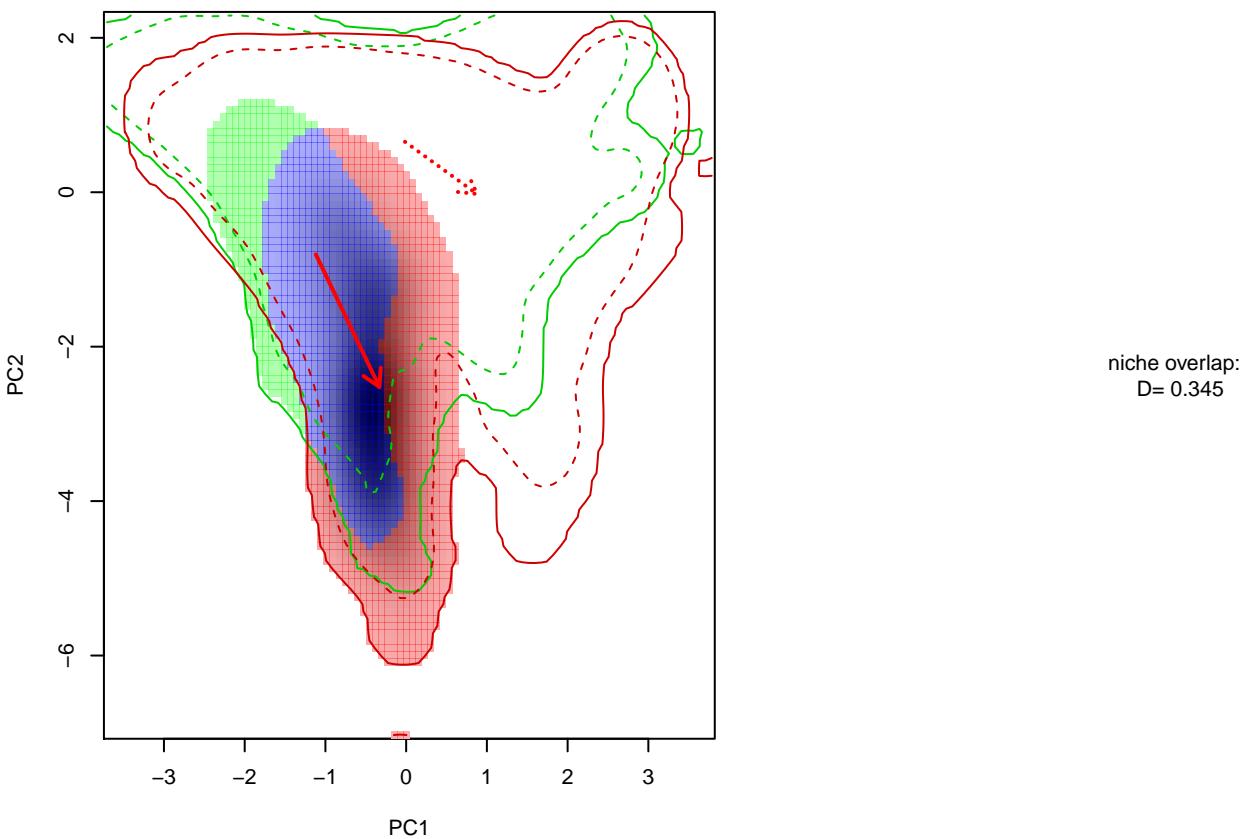
**Similarity 1→2**



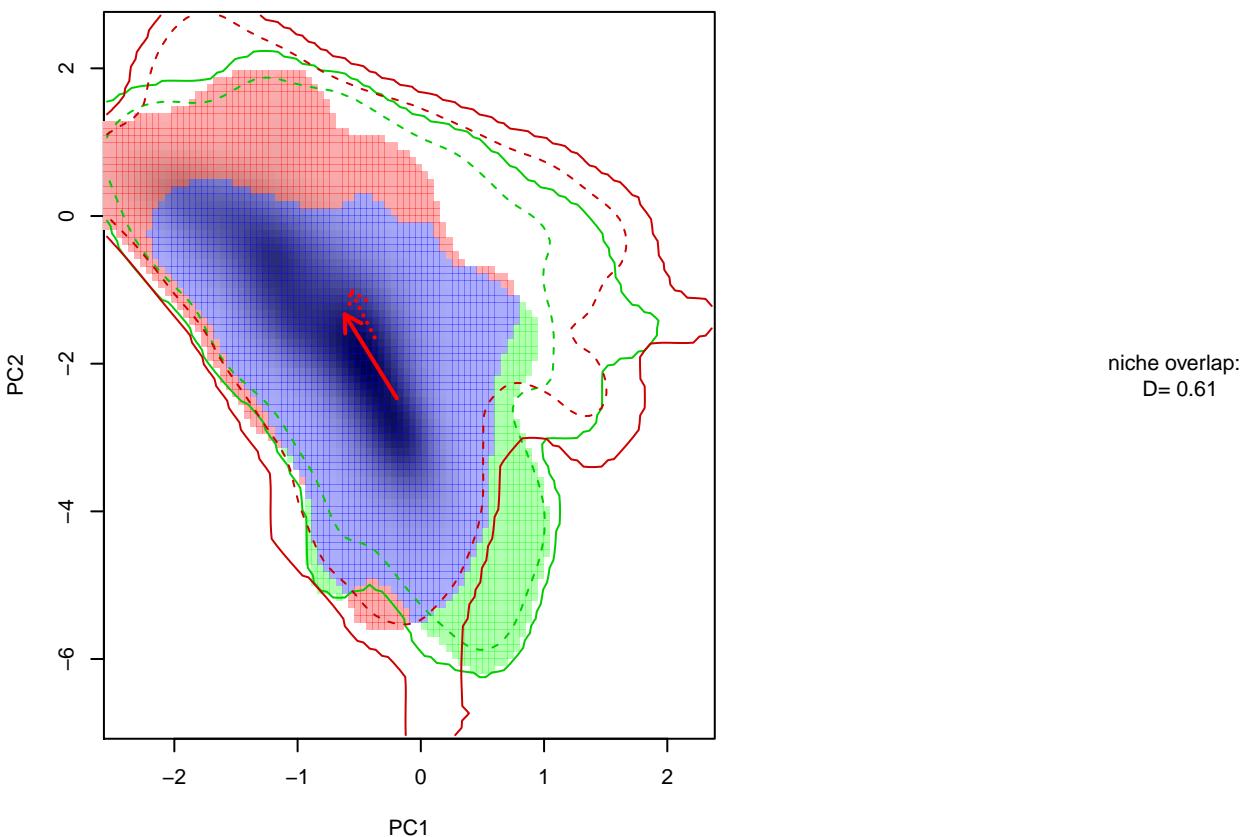
# *Stelgidopteryx serripennis* seasonal overlap-hypo wi



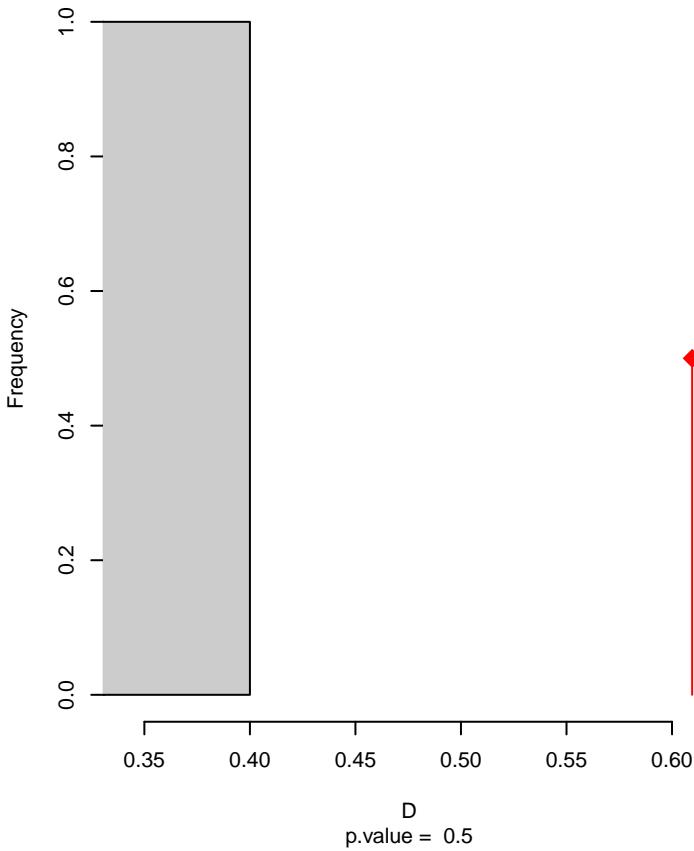
### Tachycineta albilinea seasonal overlap



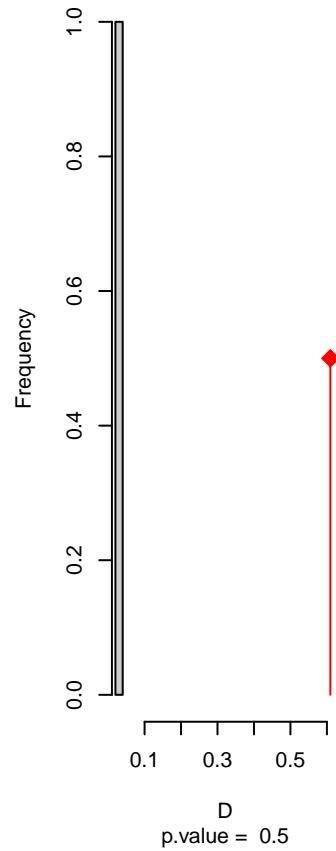
### Tachycineta albiventer seasonal overlap



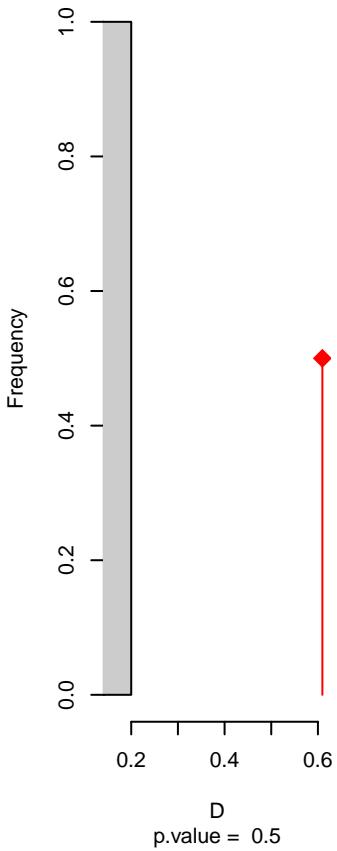
**Equivalency**



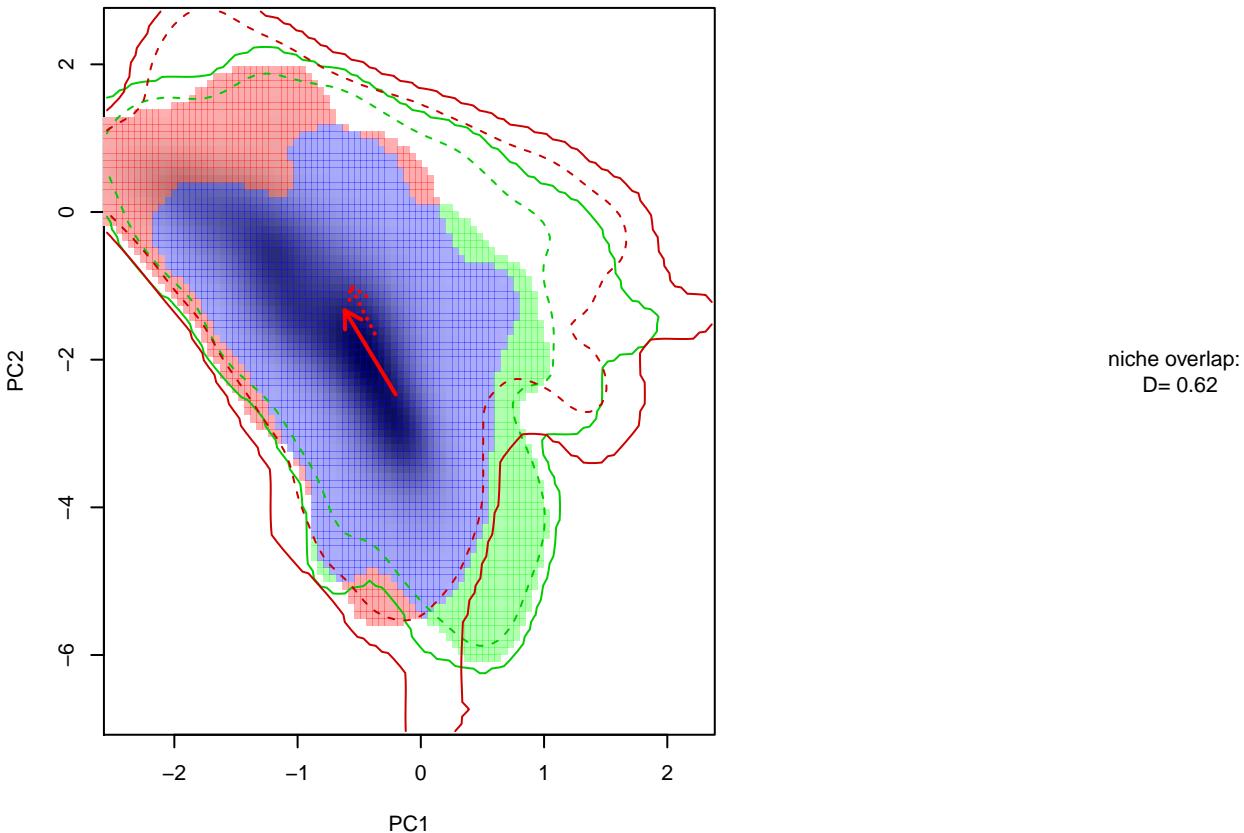
**Similarity 2→1**



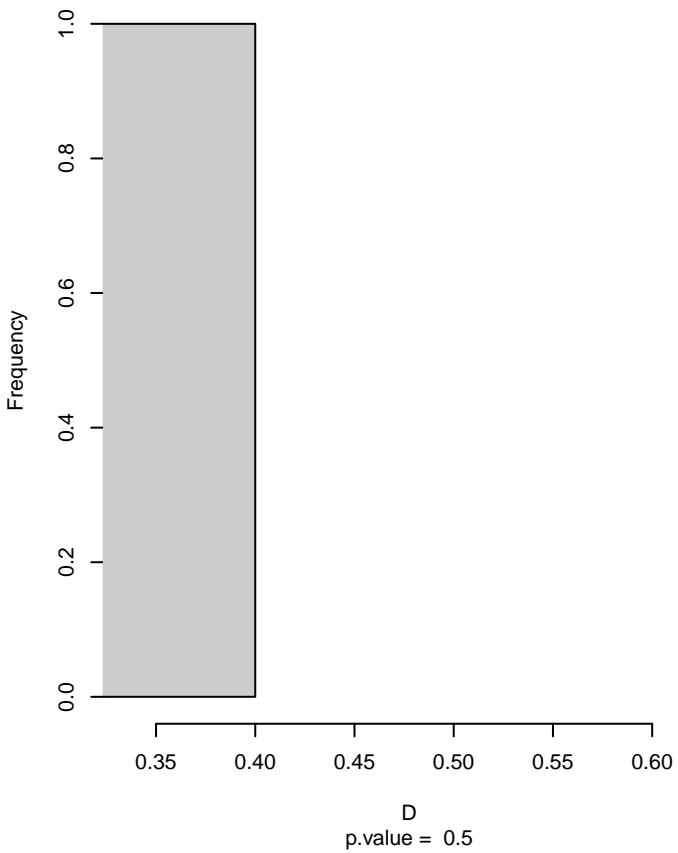
**Similarity 1→2**



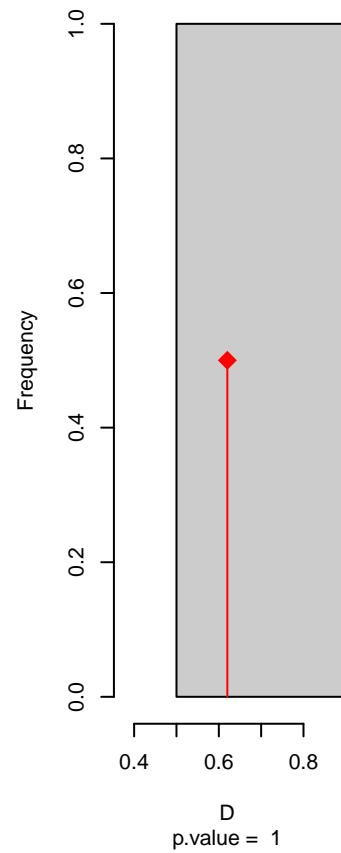
# Tachycineta albiventer seasonal overlap-hypo.br



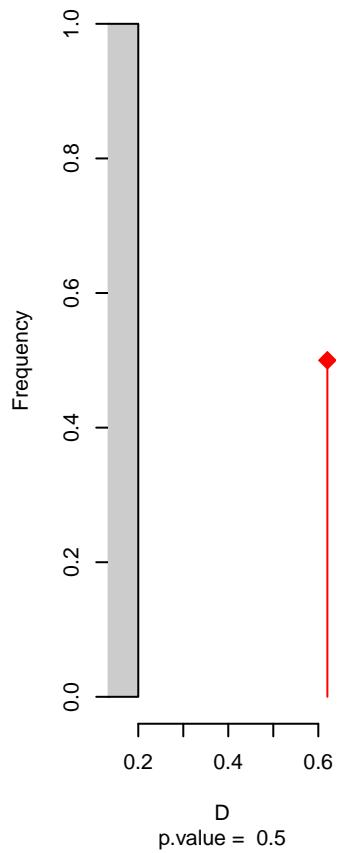
Equivalency



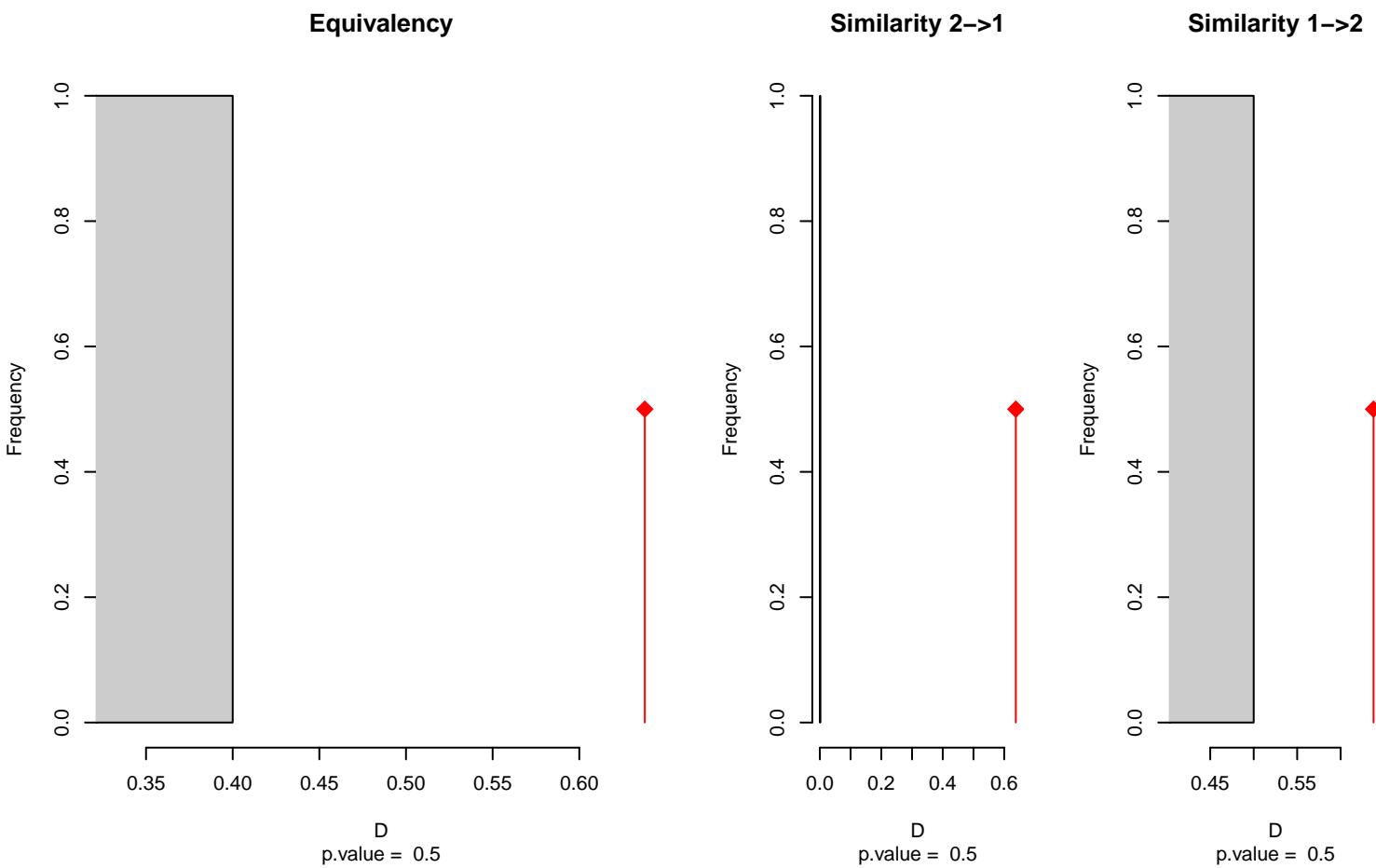
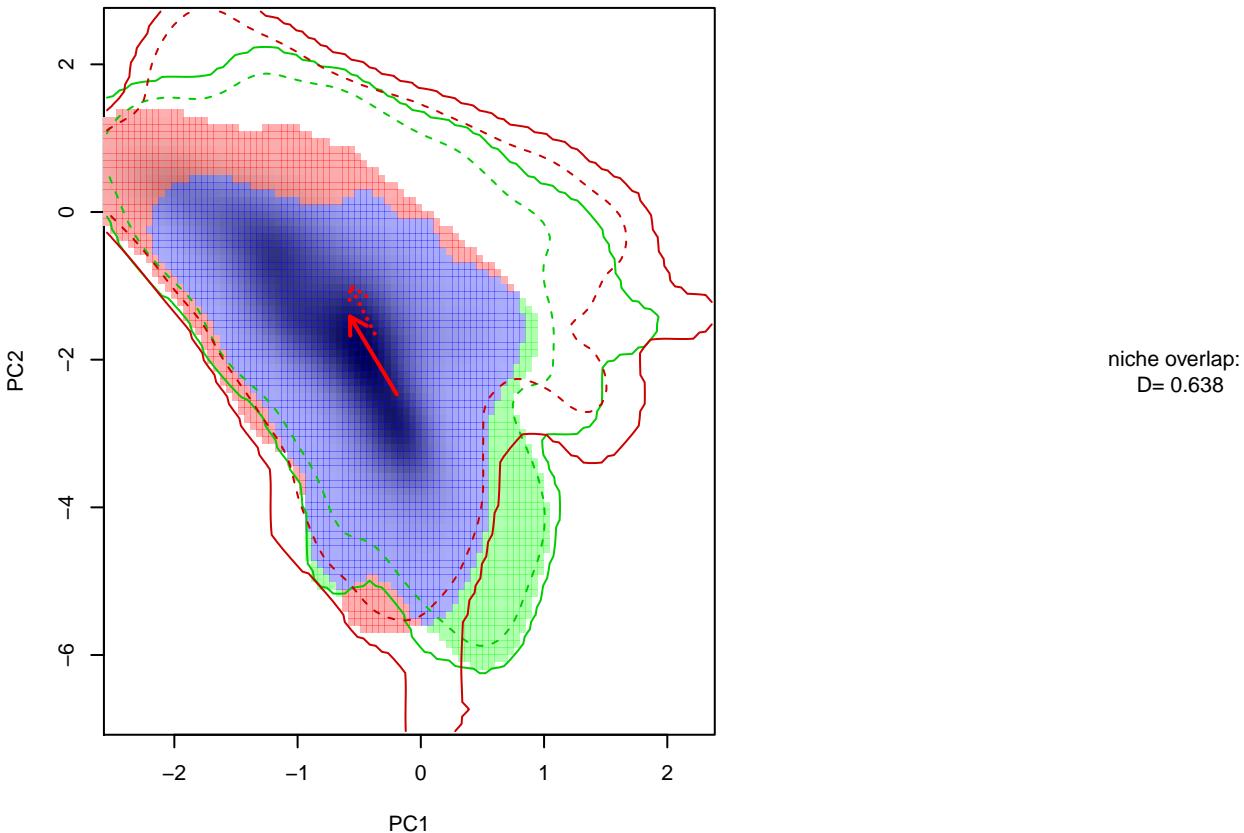
Similarity 2→1



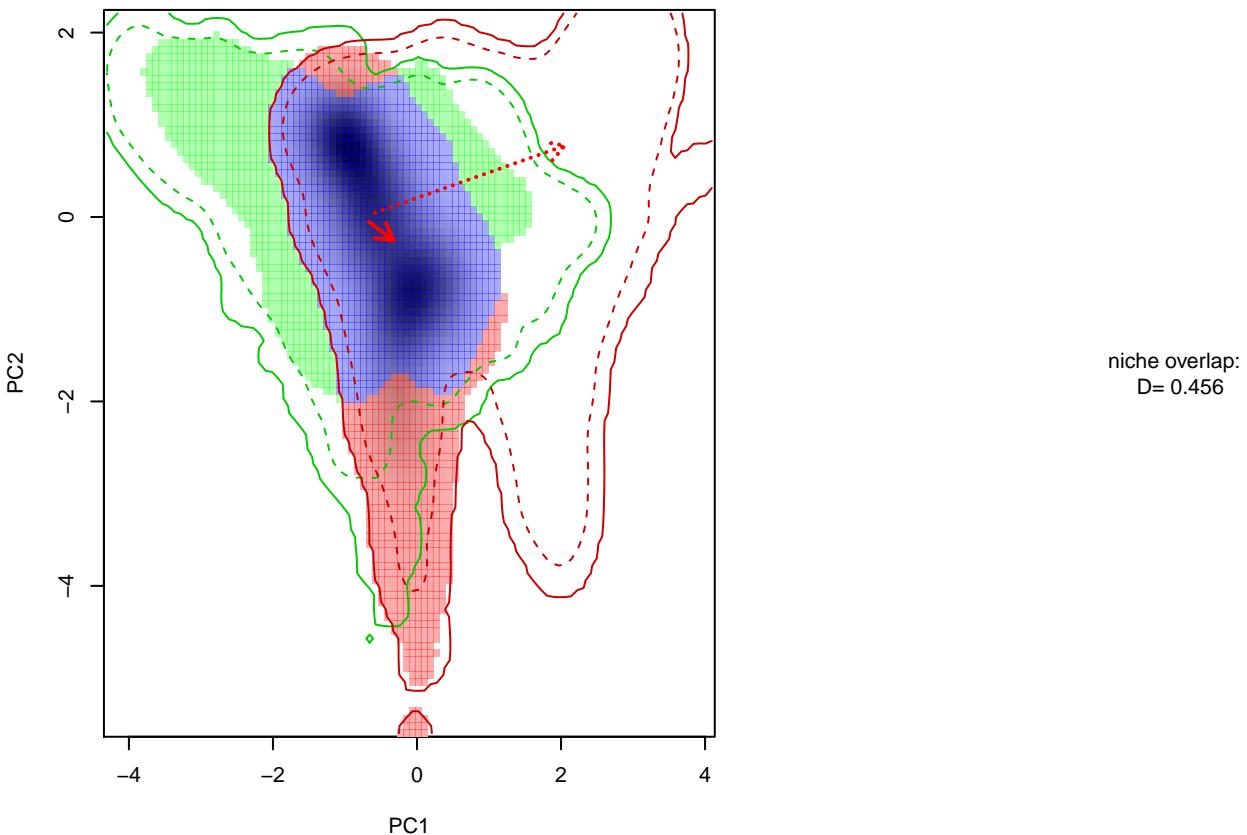
Similarity 1→2



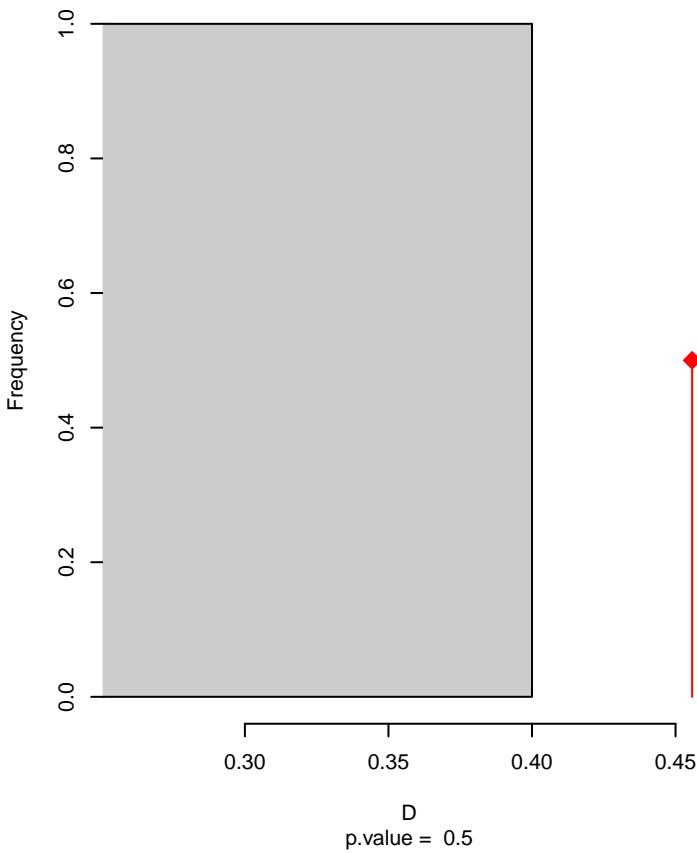
# Tachycineta albiventer seasonal overlap-hypo wi



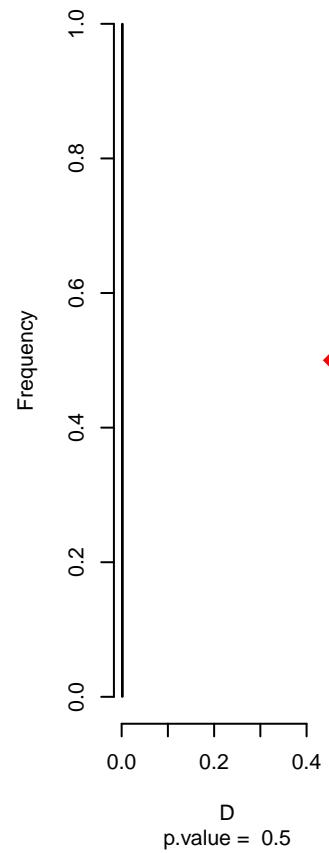
### Tachycineta bicolor seasonal overlap



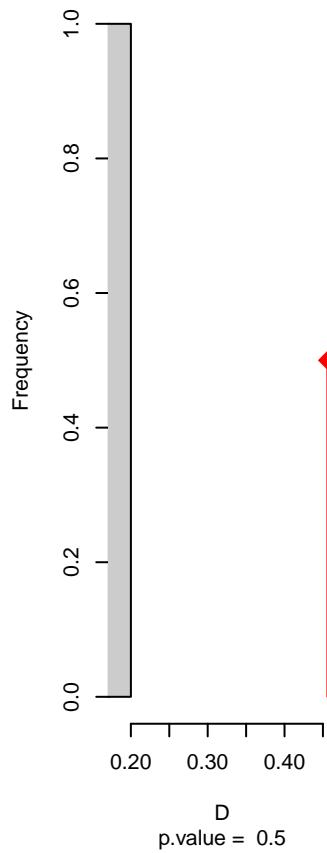
**Equivalency**



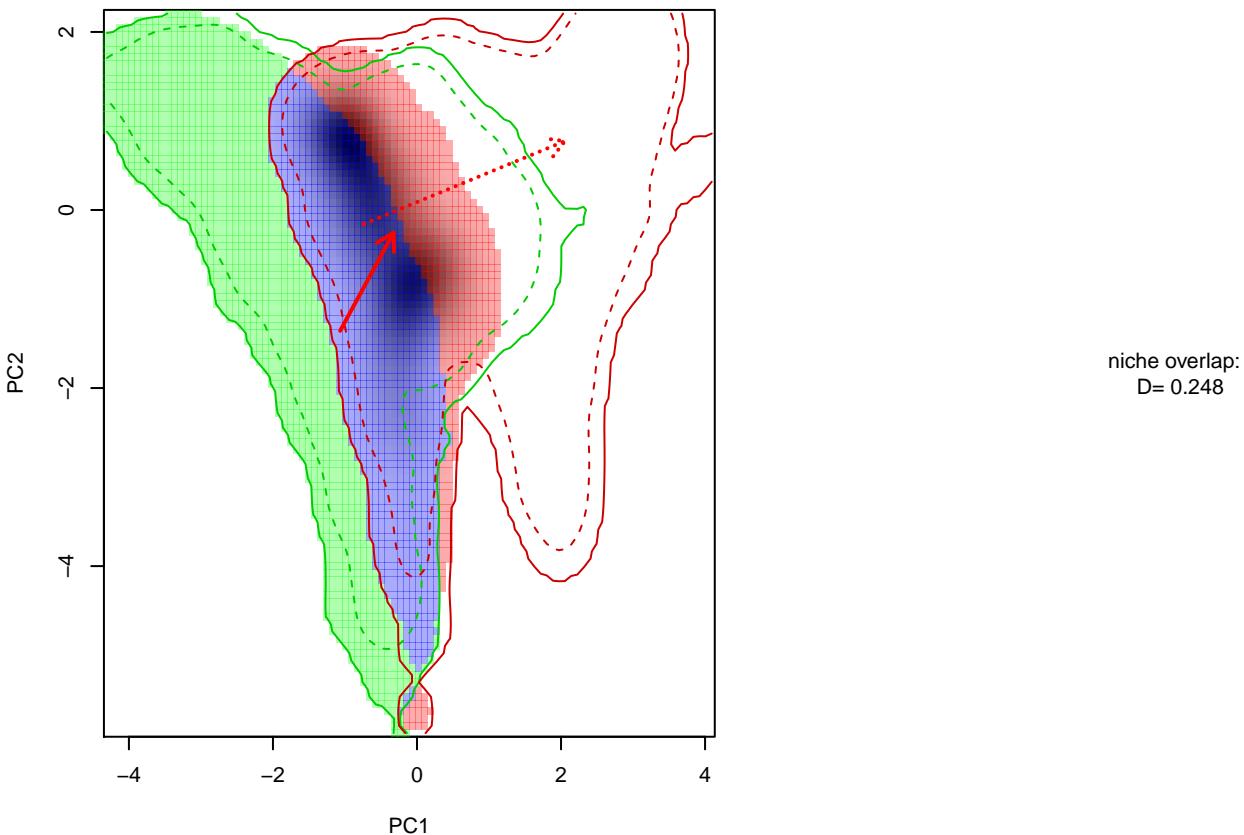
**Similarity 2→1**



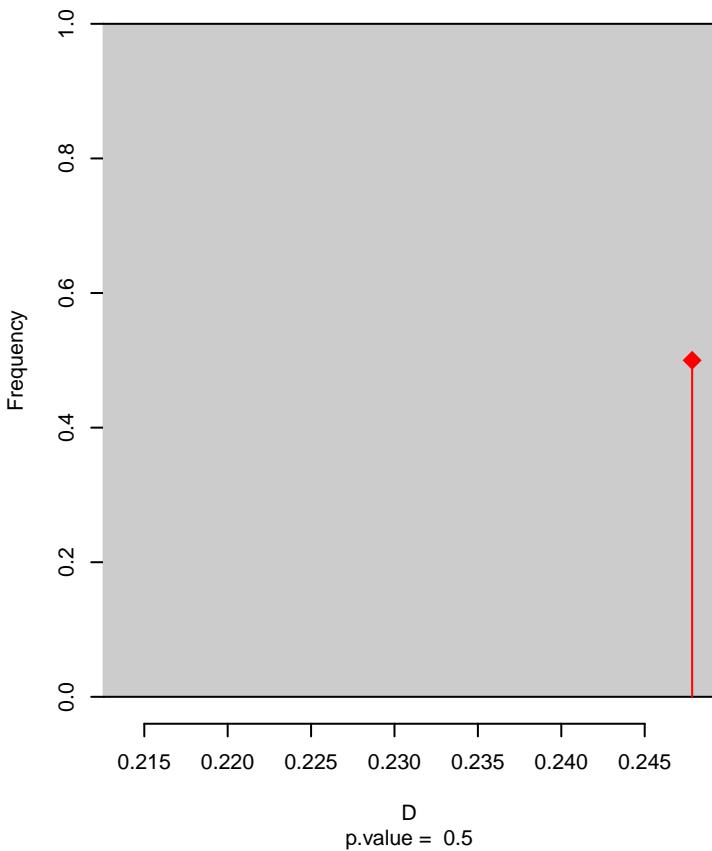
**Similarity 1→2**



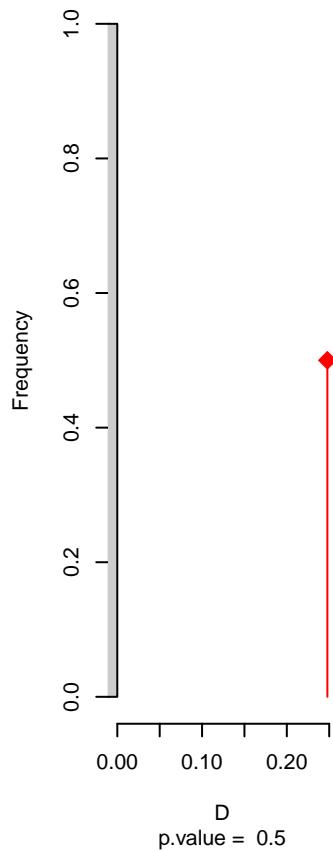
# Tachycineta bicolor seasonal overlap-hypo.br



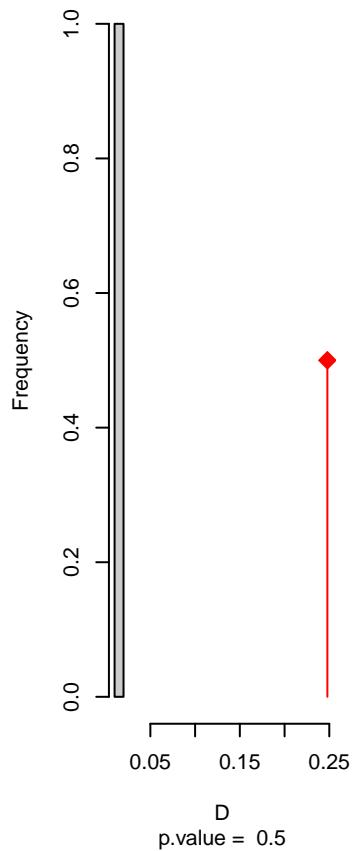
**Equivalency**



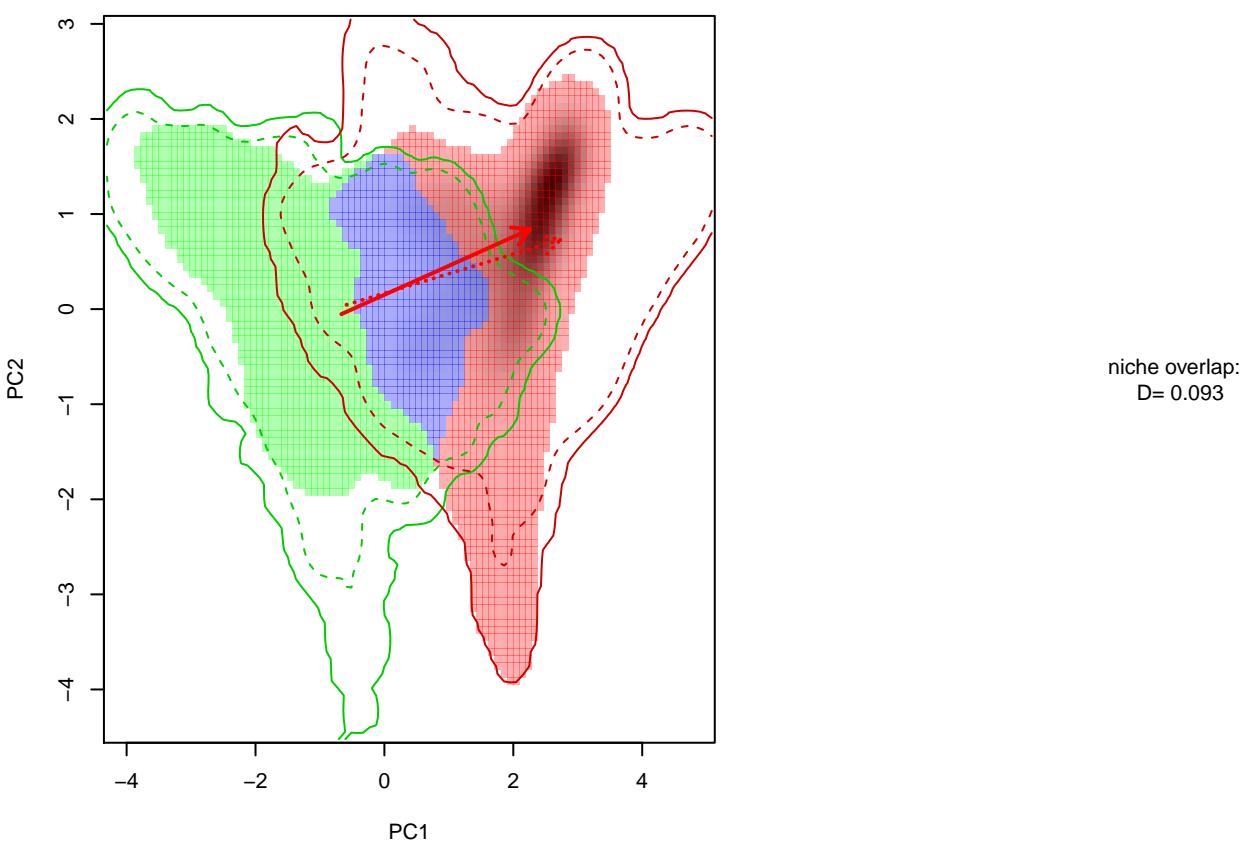
**Similarity 2→1**



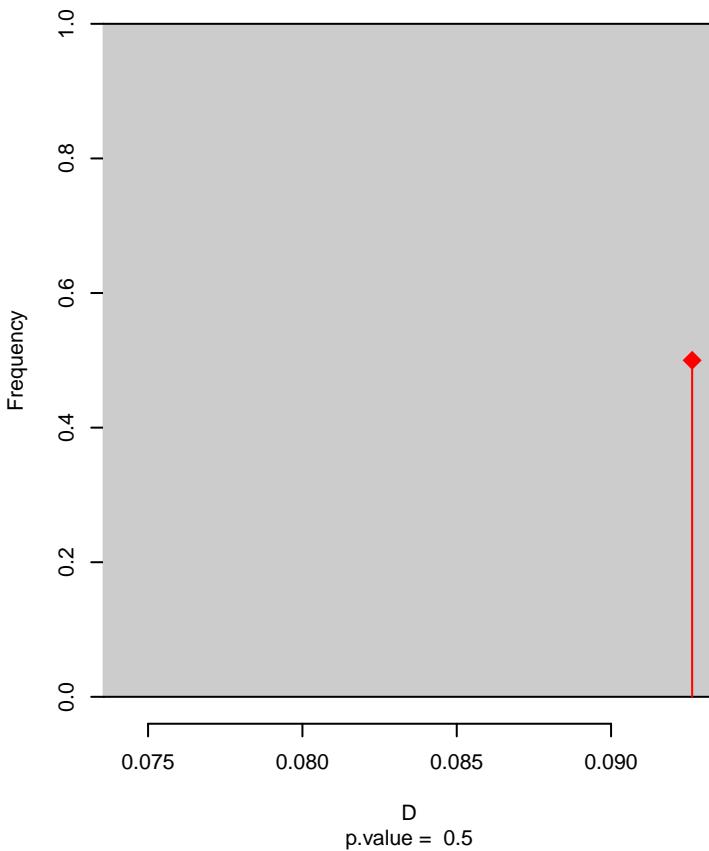
**Similarity 1→2**



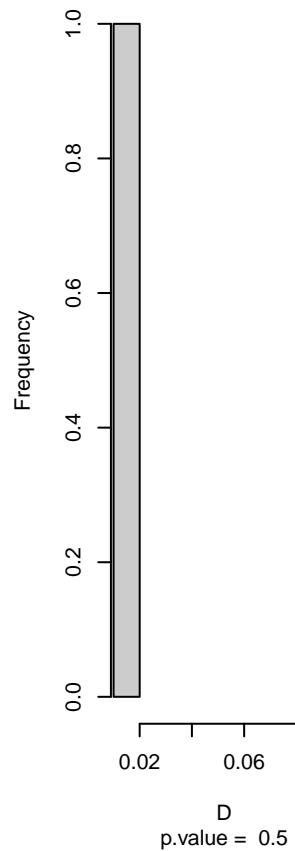
# Tachycineta\_bicolor seasonal overlap-hypo wi



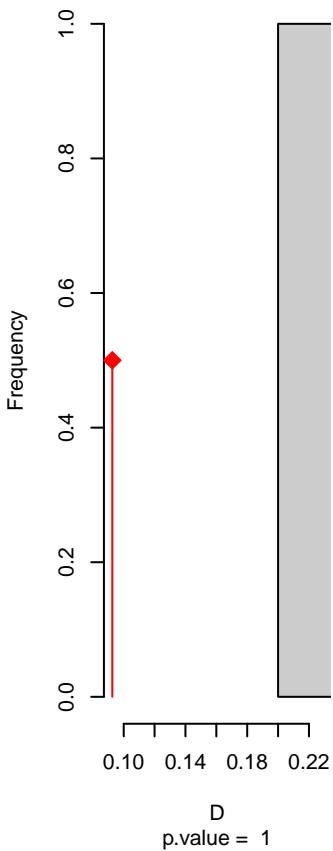
**Equivalency**



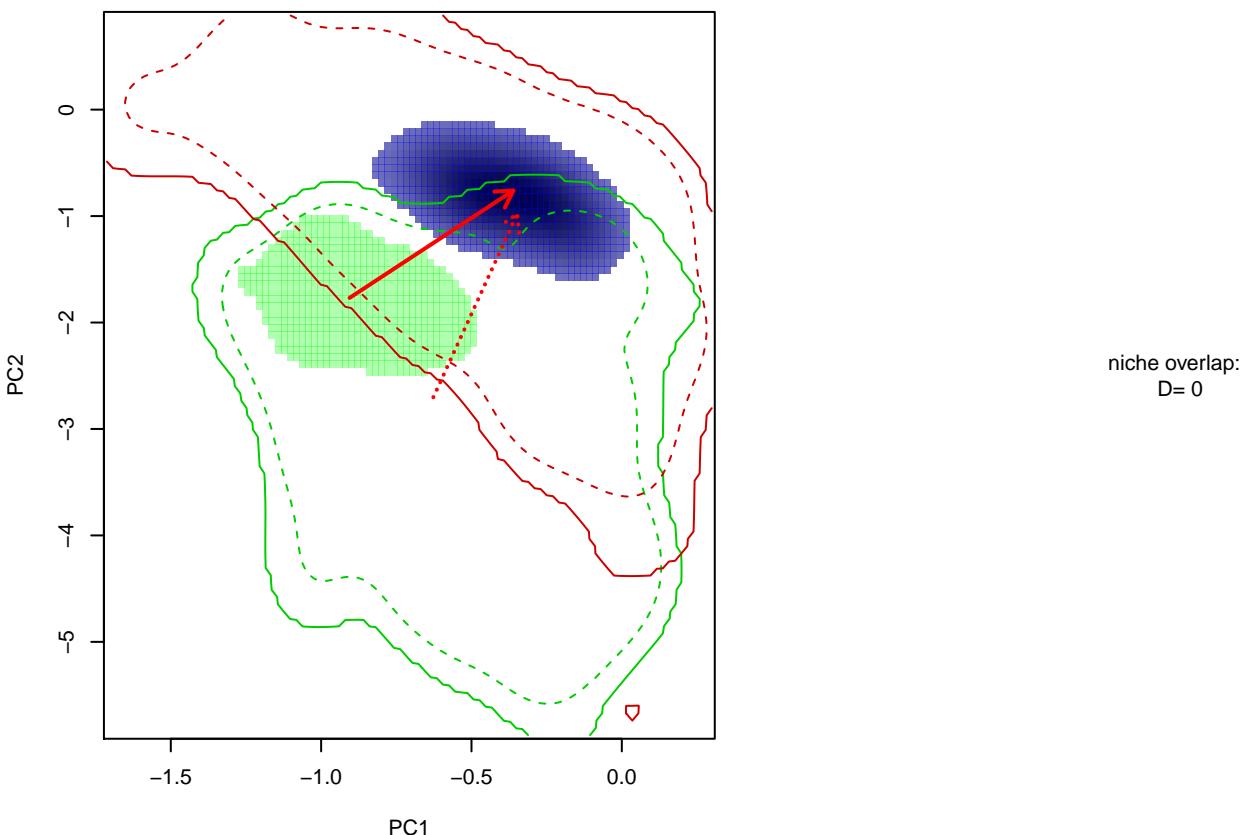
**Similarity 2→1**



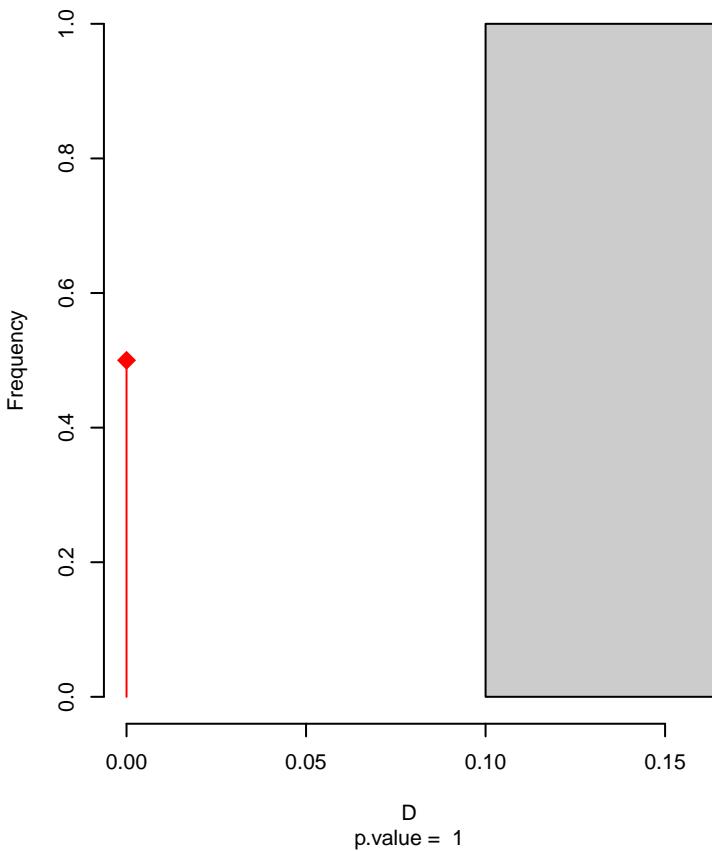
**Similarity 1→2**



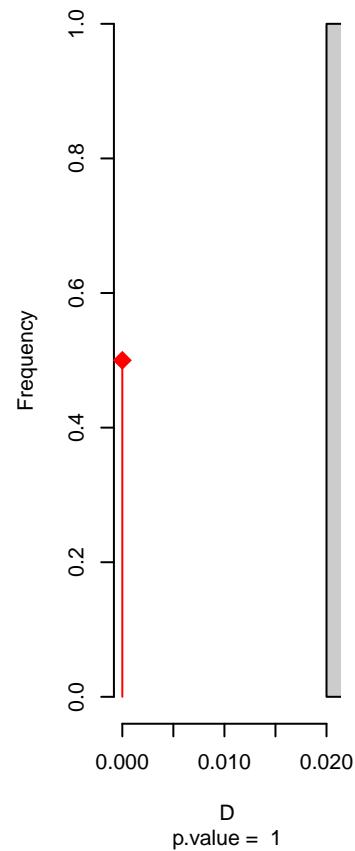
### Tachycineta\_euchrysea seasonal overlap



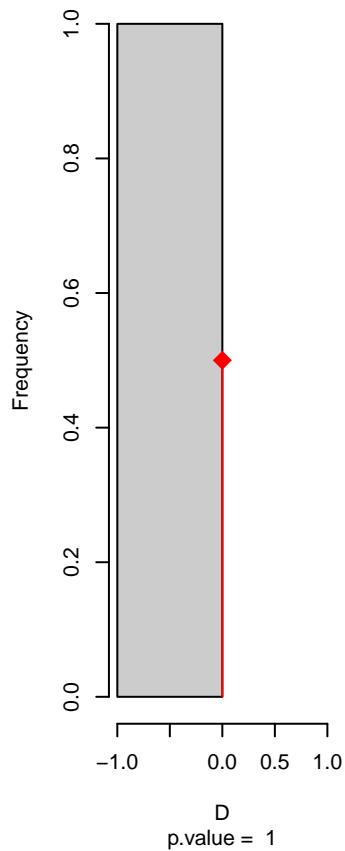
**Equivalency**



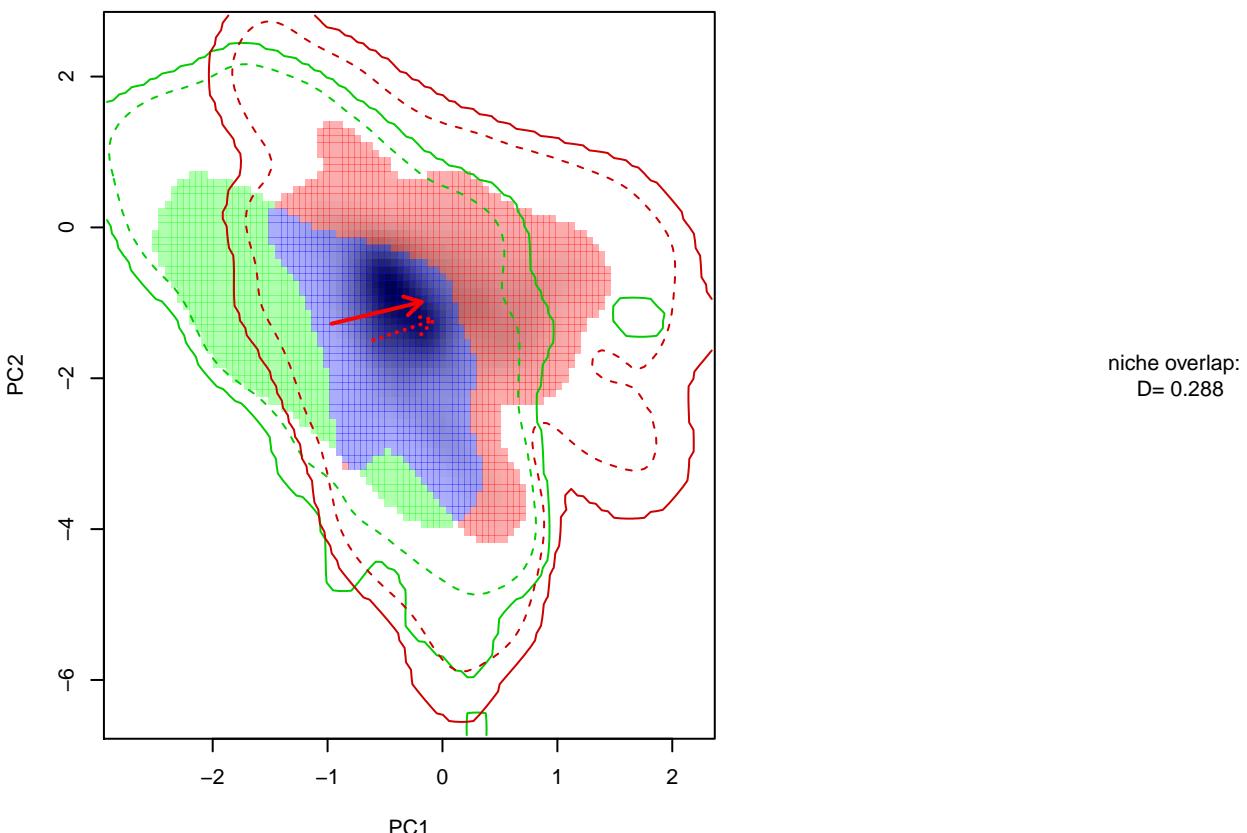
**Similarity 2→1**



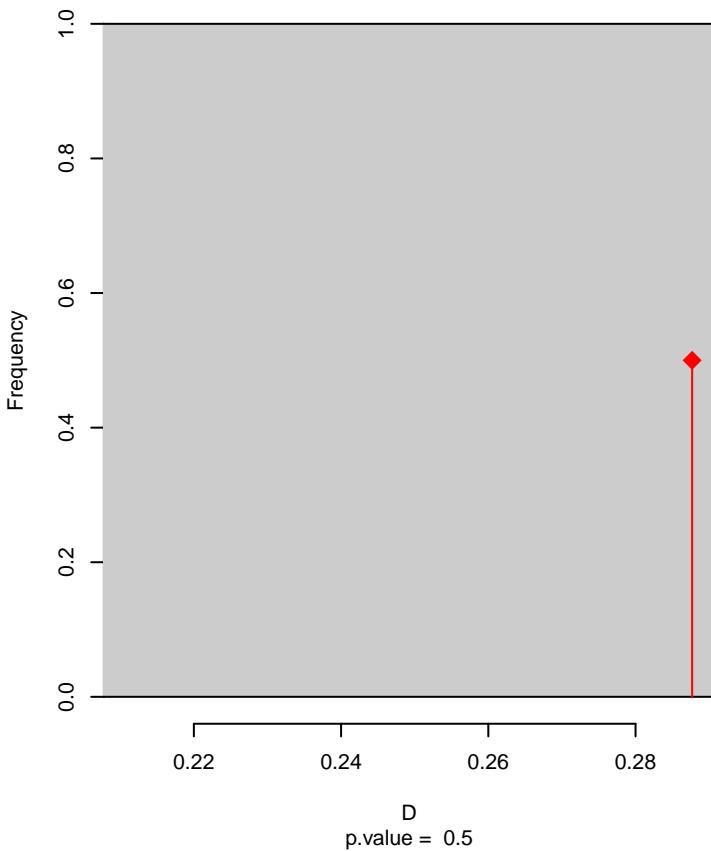
**Similarity 1→2**



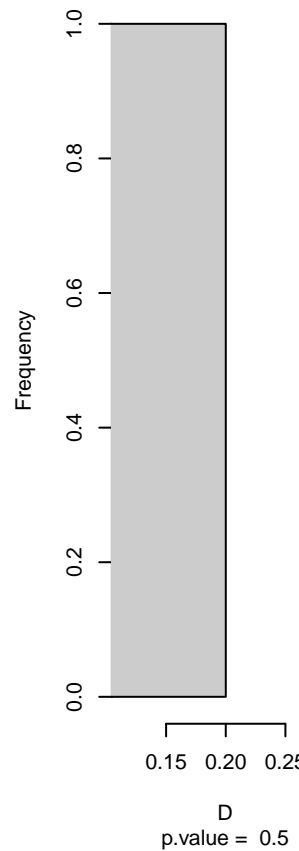
### Tachycineta\_leucorrhoa seasonal overlap



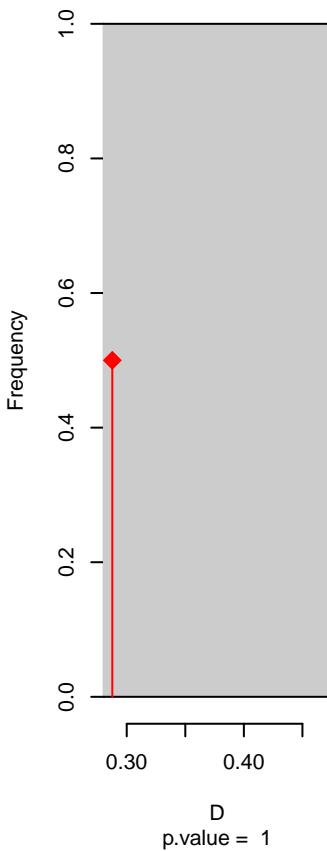
**Equivalency**



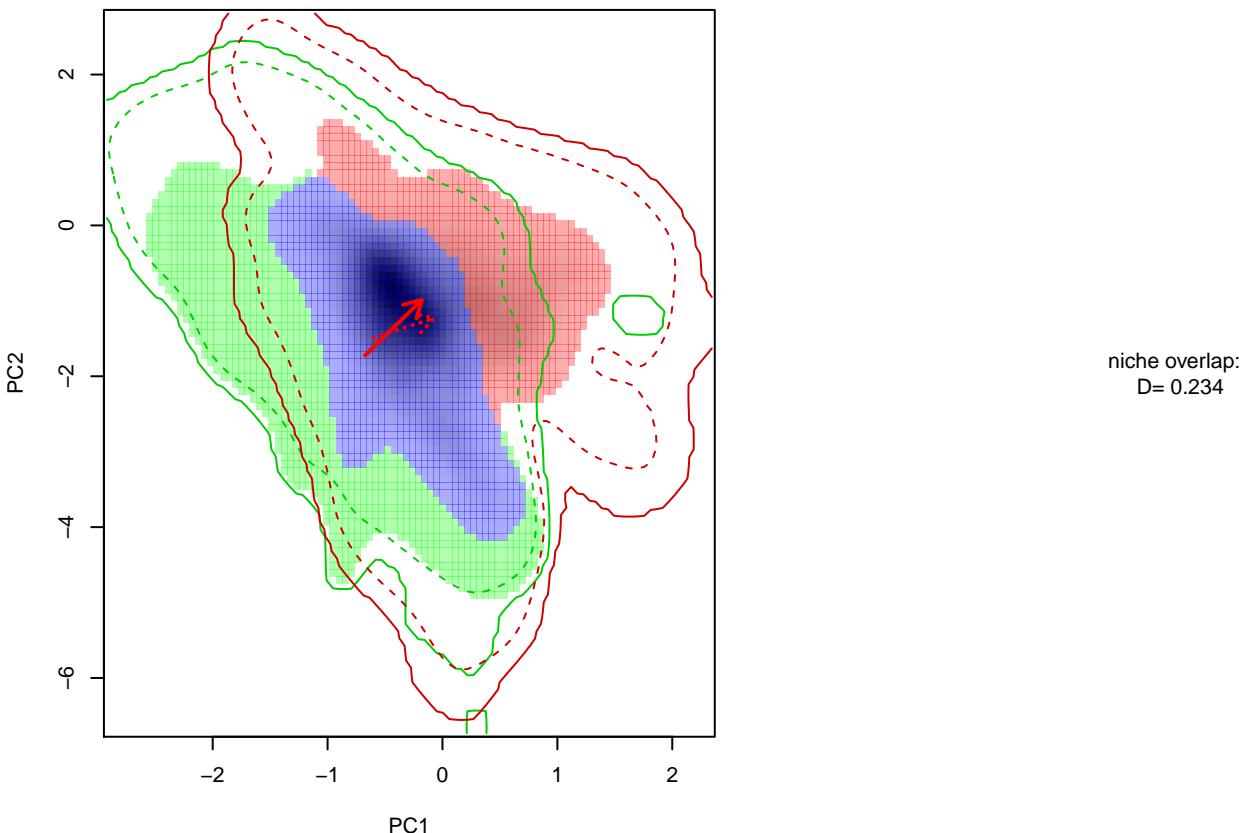
**Similarity 2→1**



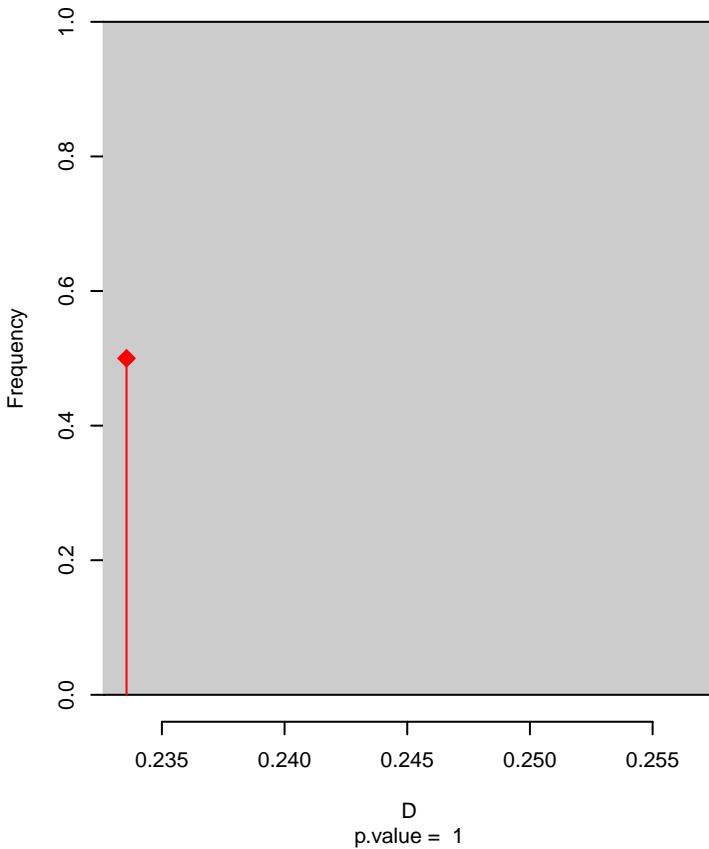
**Similarity 1→2**



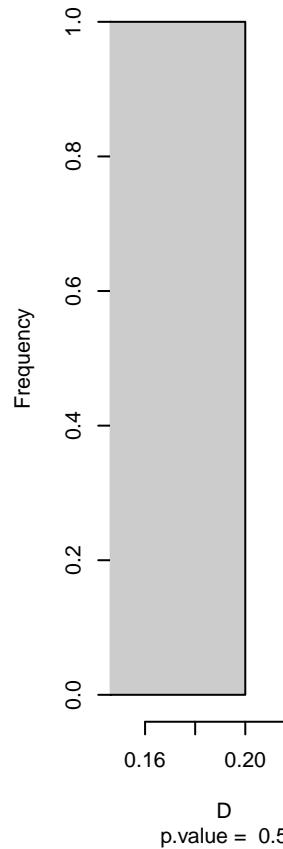
# Tachycineta\_leucorrhoa seasonal overlap-hypo.br



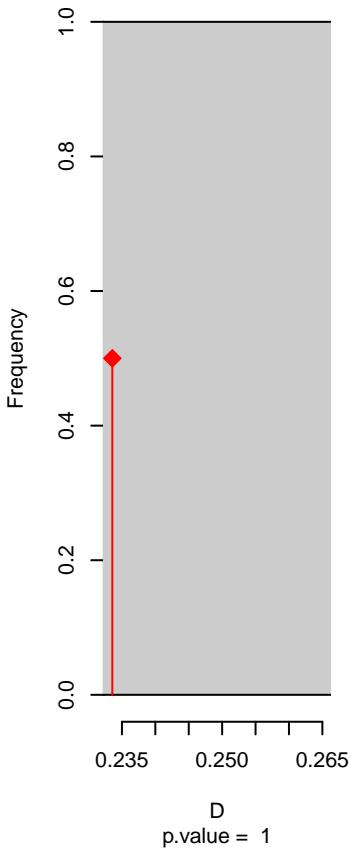
**Equivalency**



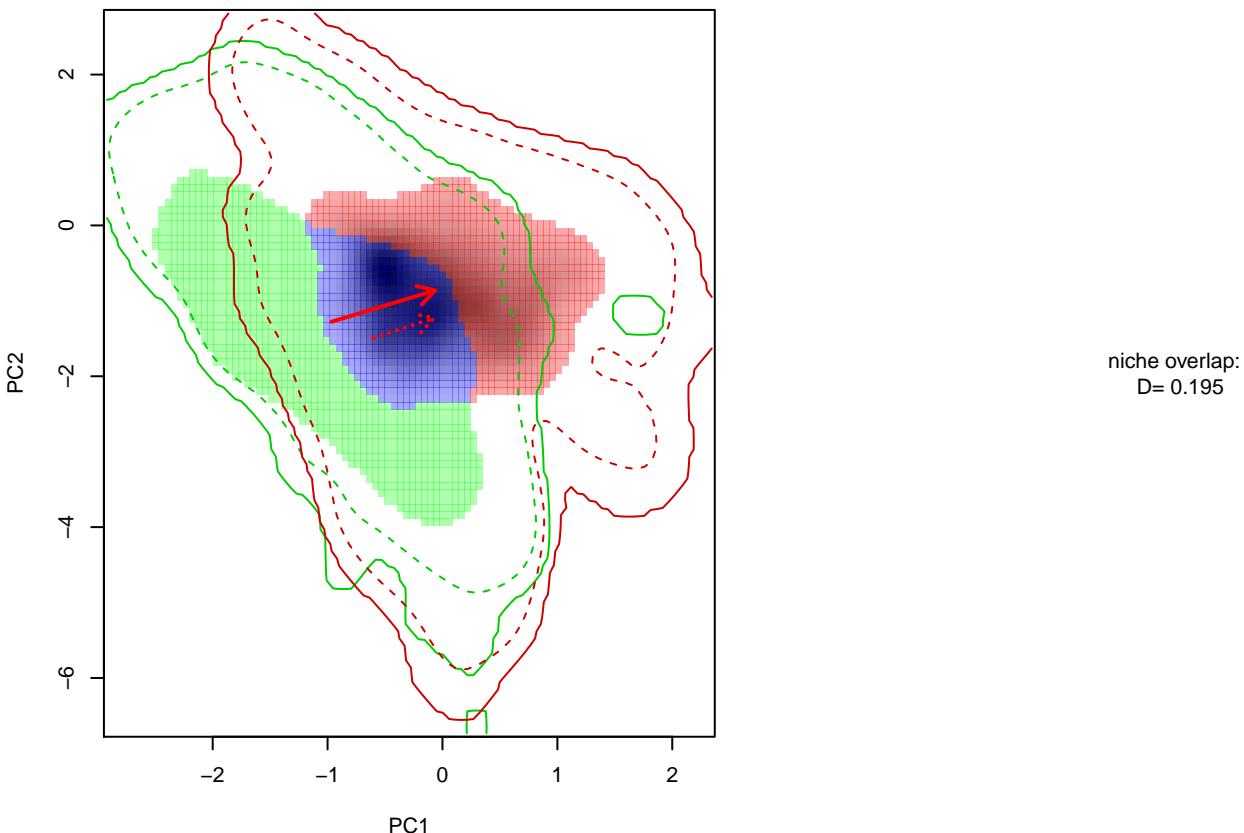
**Similarity 2→1**



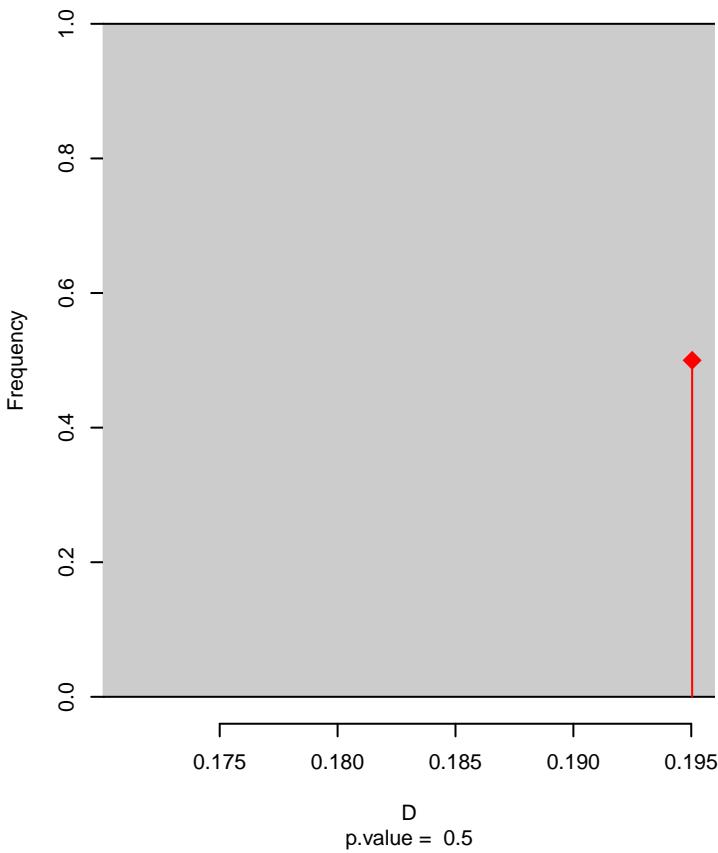
**Similarity 1→2**



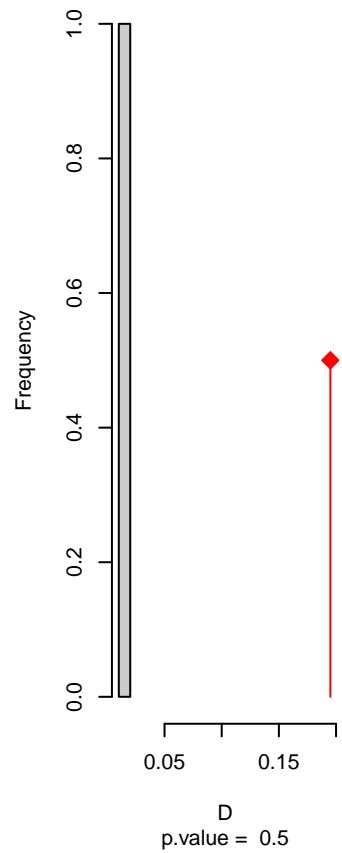
# Tachycineta\_leucorrhoa seasonal overlap-hypo wi



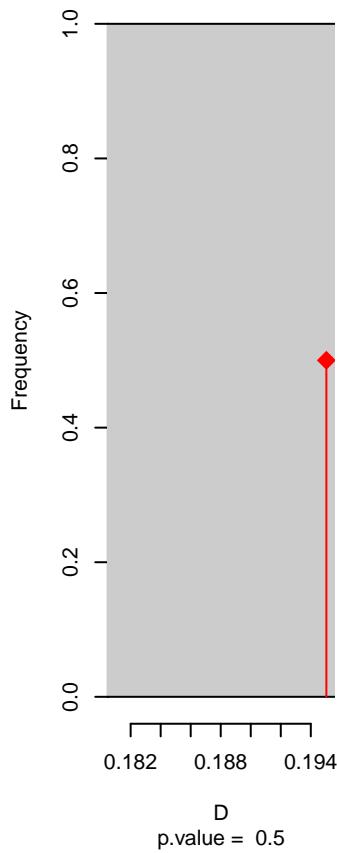
**Equivalency**



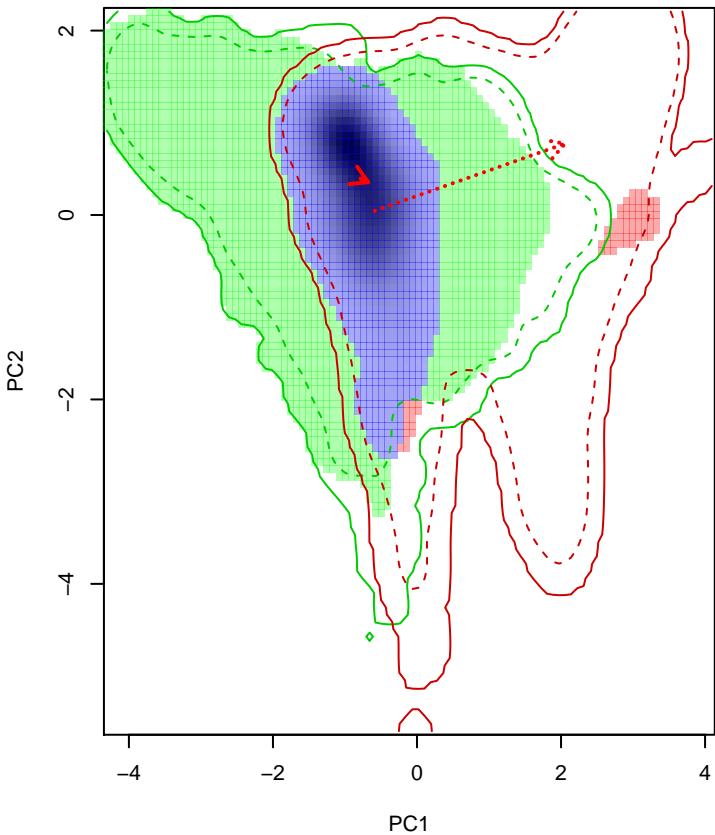
**Similarity 2→1**



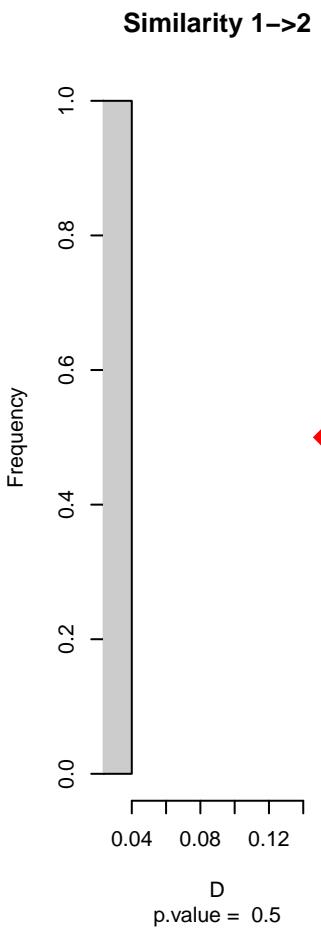
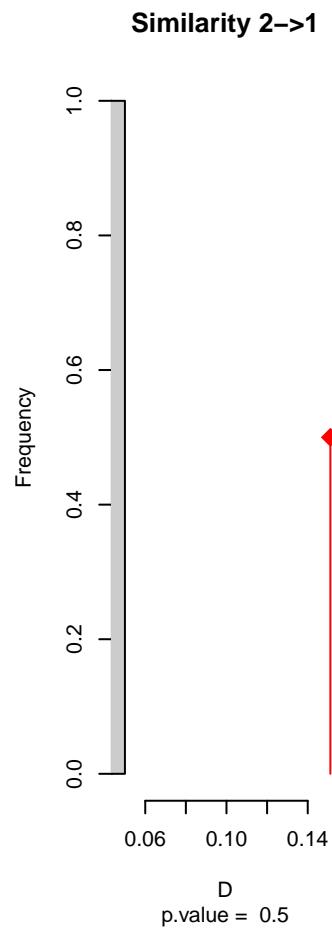
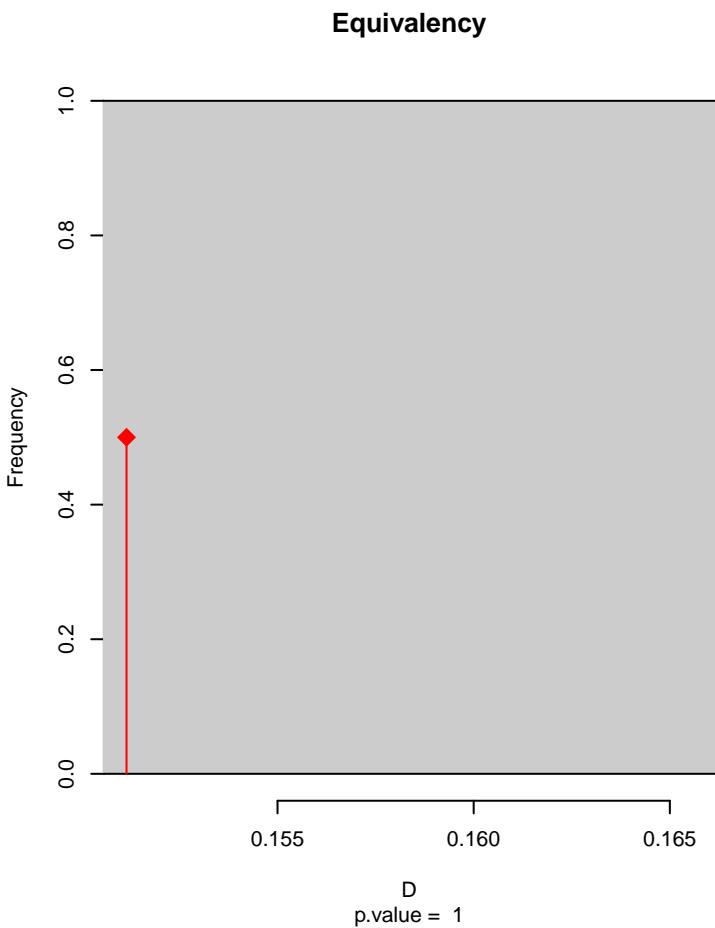
**Similarity 1→2**



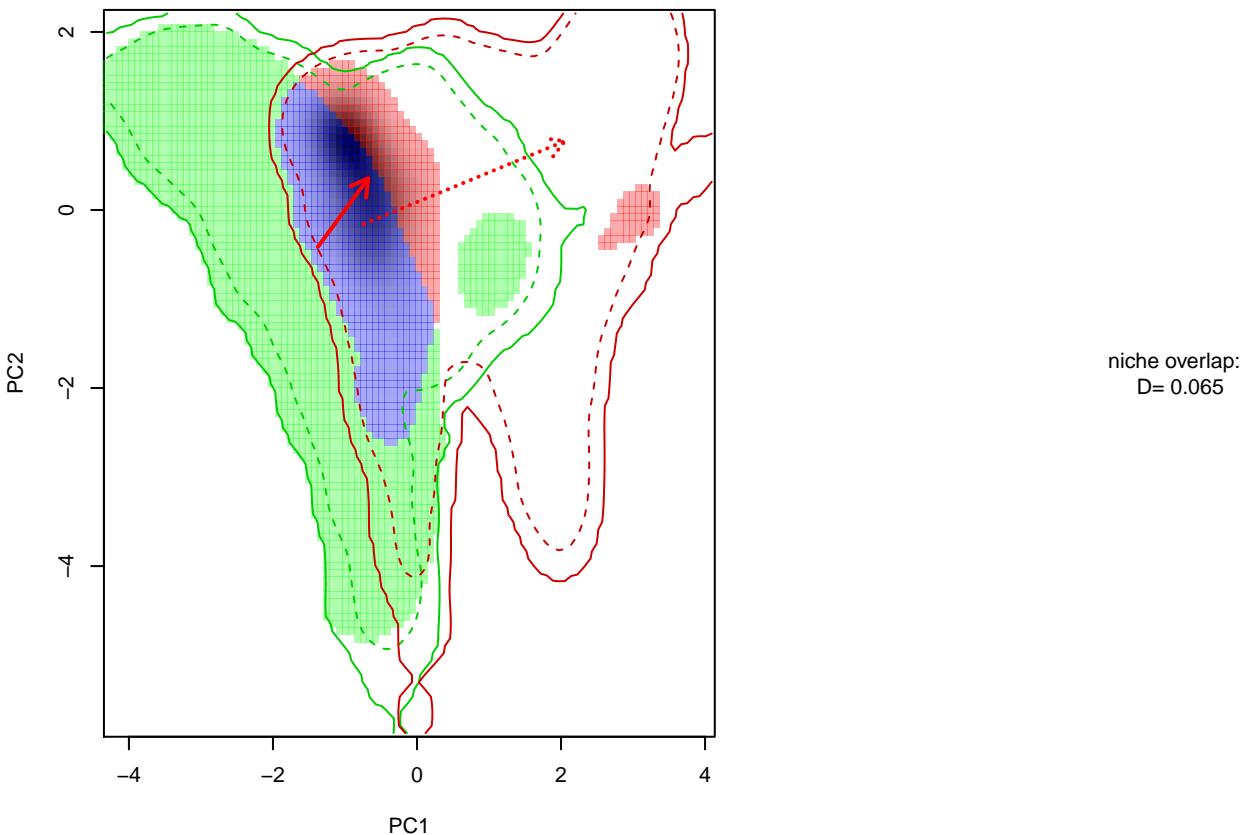
## Tachycineta\_thalassina seasonal overlap



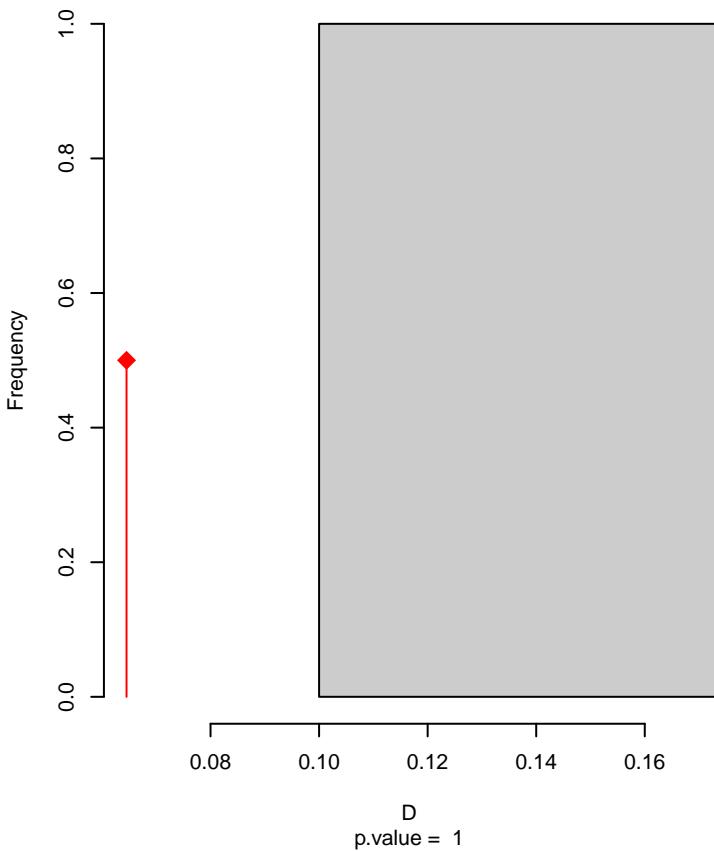
niche overlap:  
 $D = 0.151$



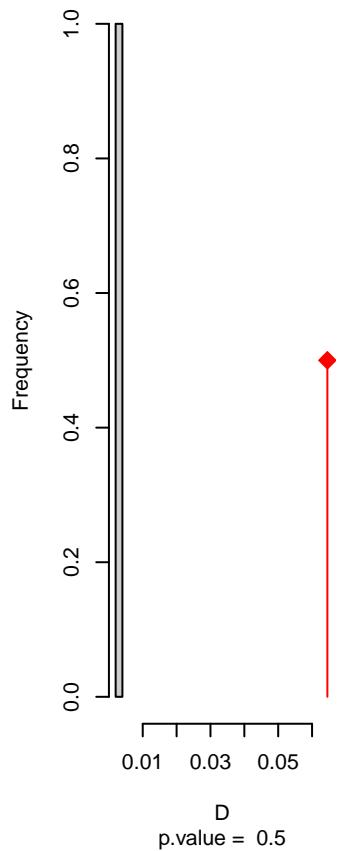
# Tachycineta\_thalassina seasonal overlap-hypo.br



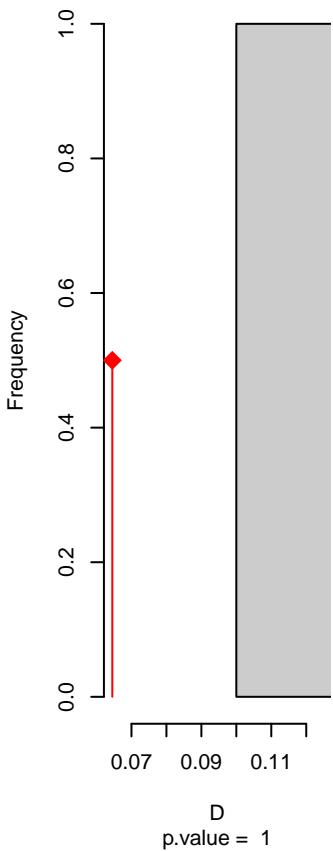
**Equivalency**



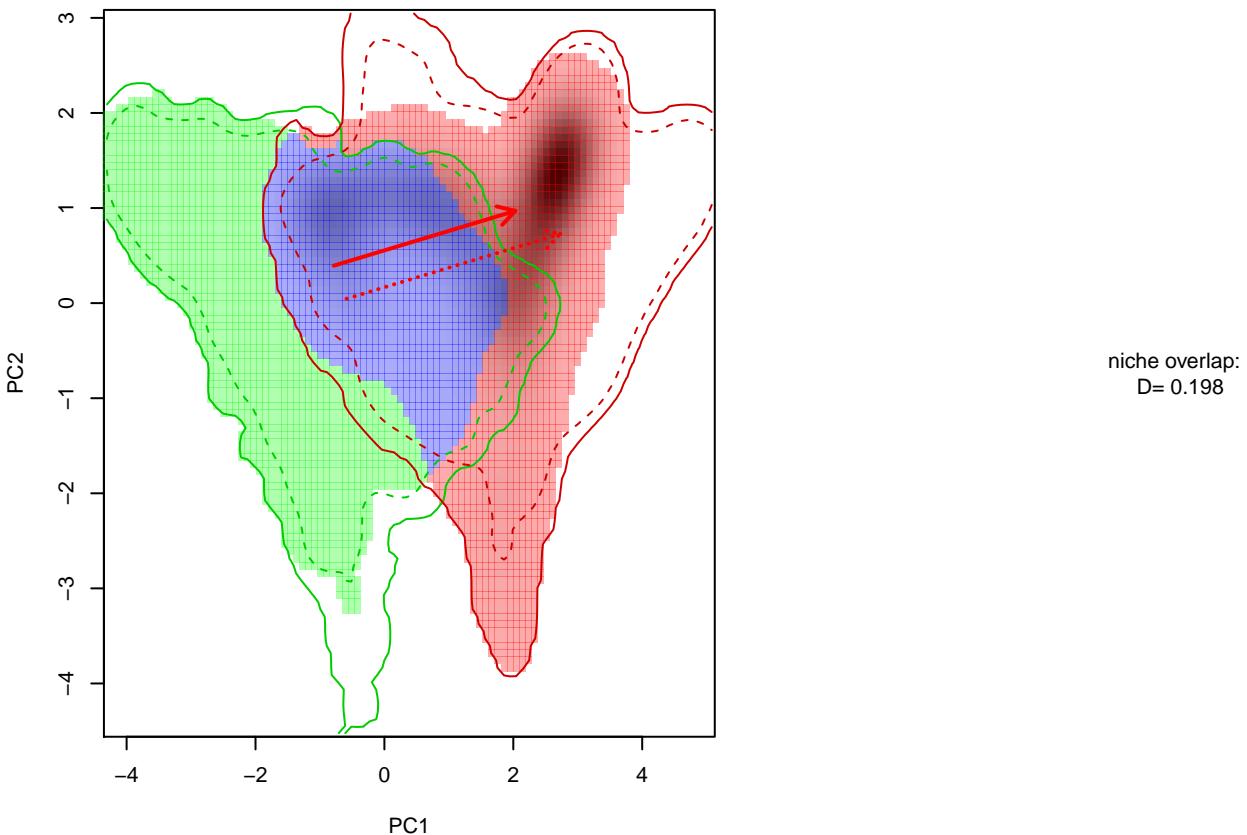
**Similarity 2→1**



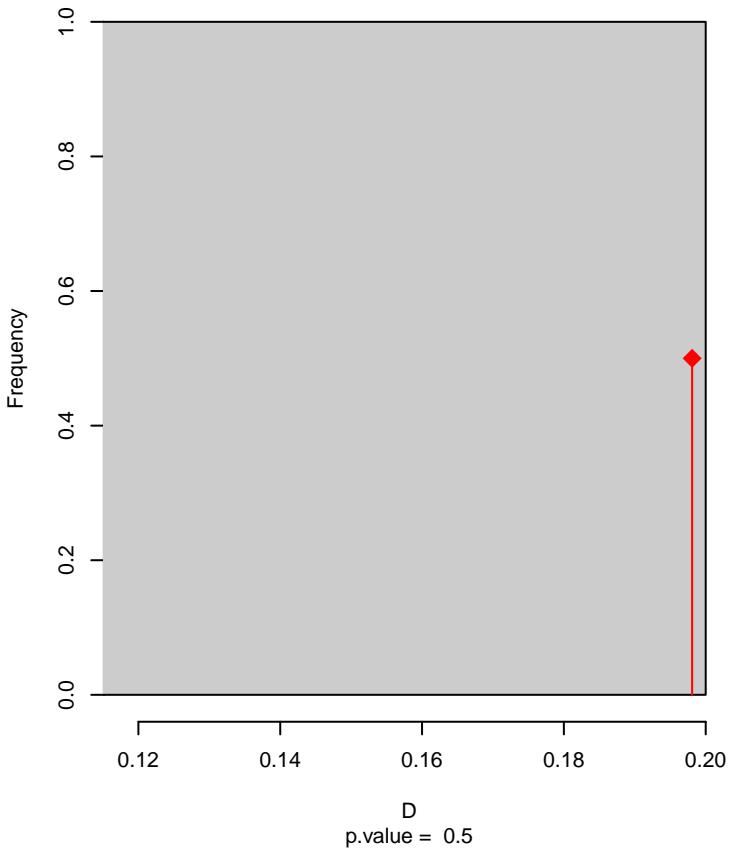
**Similarity 1→2**



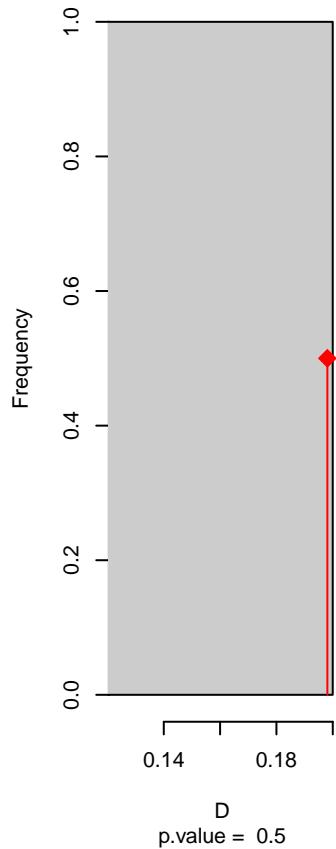
# **Tachycineta\_thalassina seasonal overlap-hypo wi**



**Equivalency**



**Similarity 2→1**



**Similarity 1→2**

