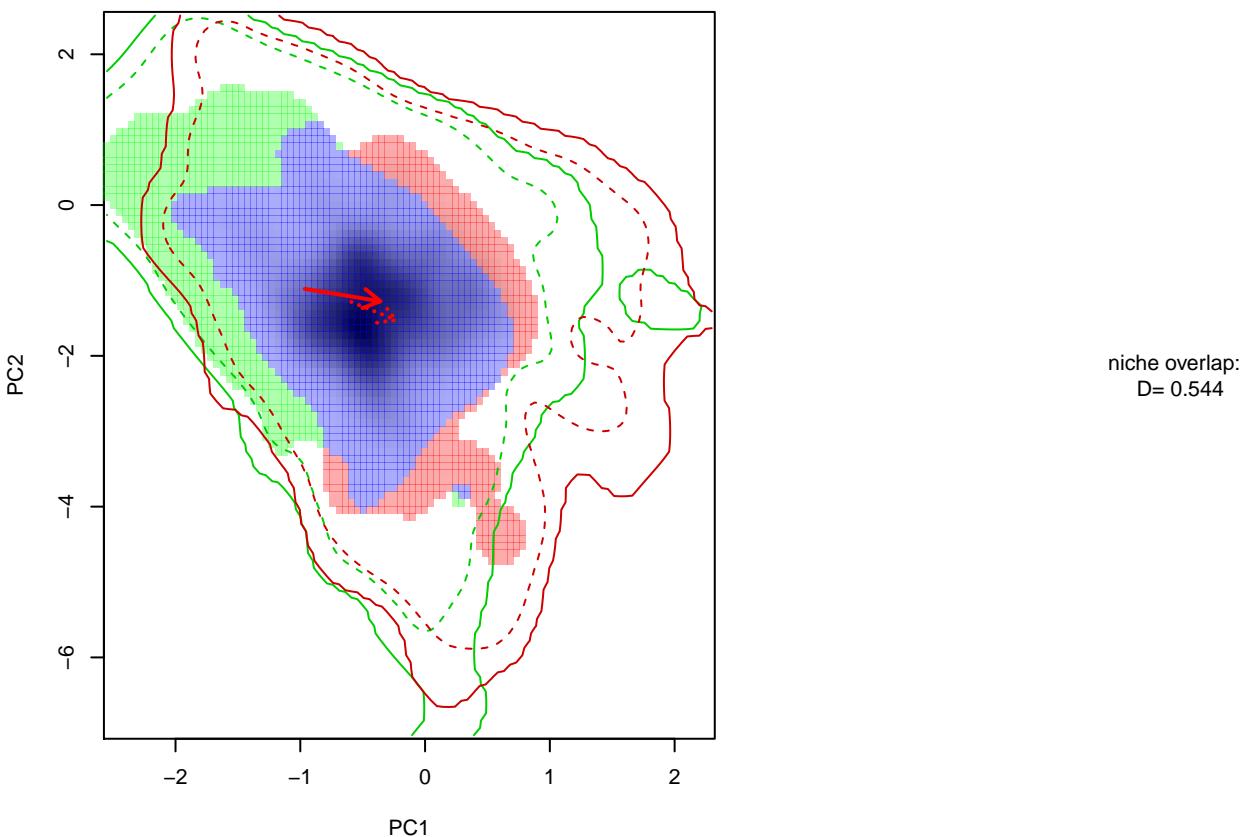
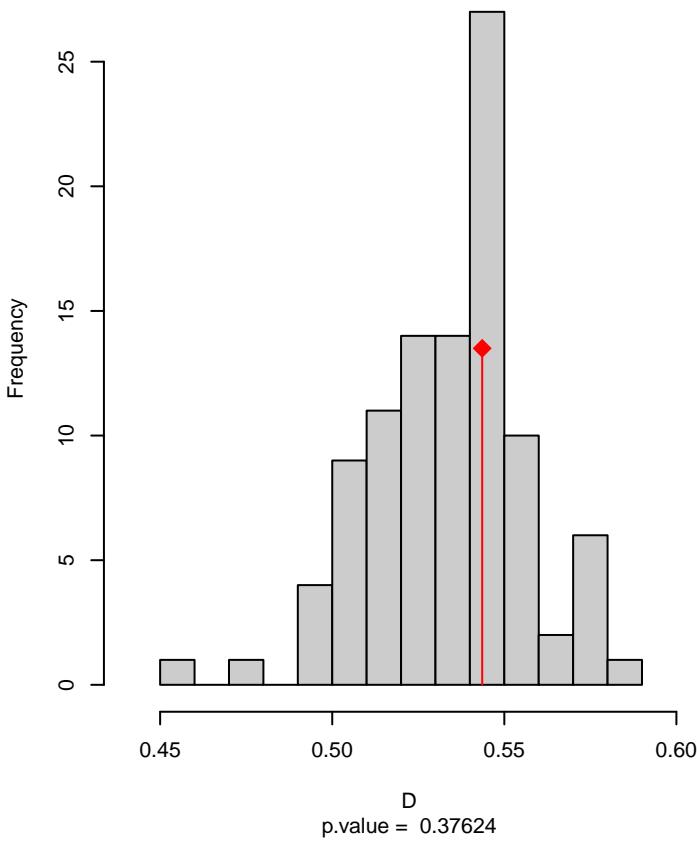


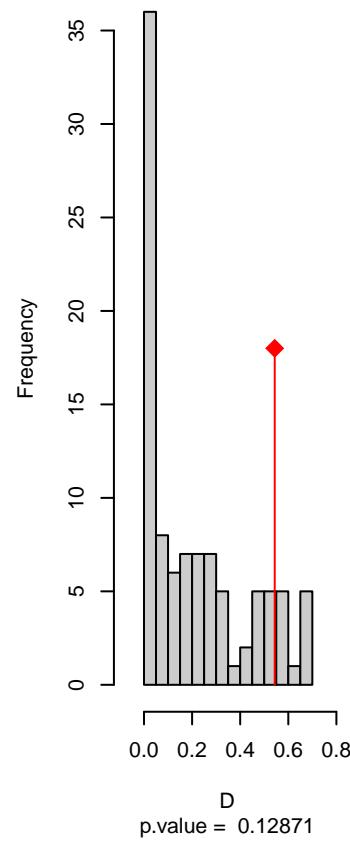
Alopochelidon_fucata seasonal overlap



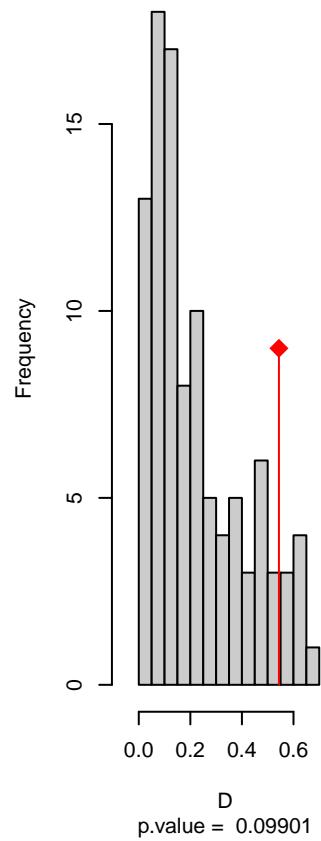
Equivalency



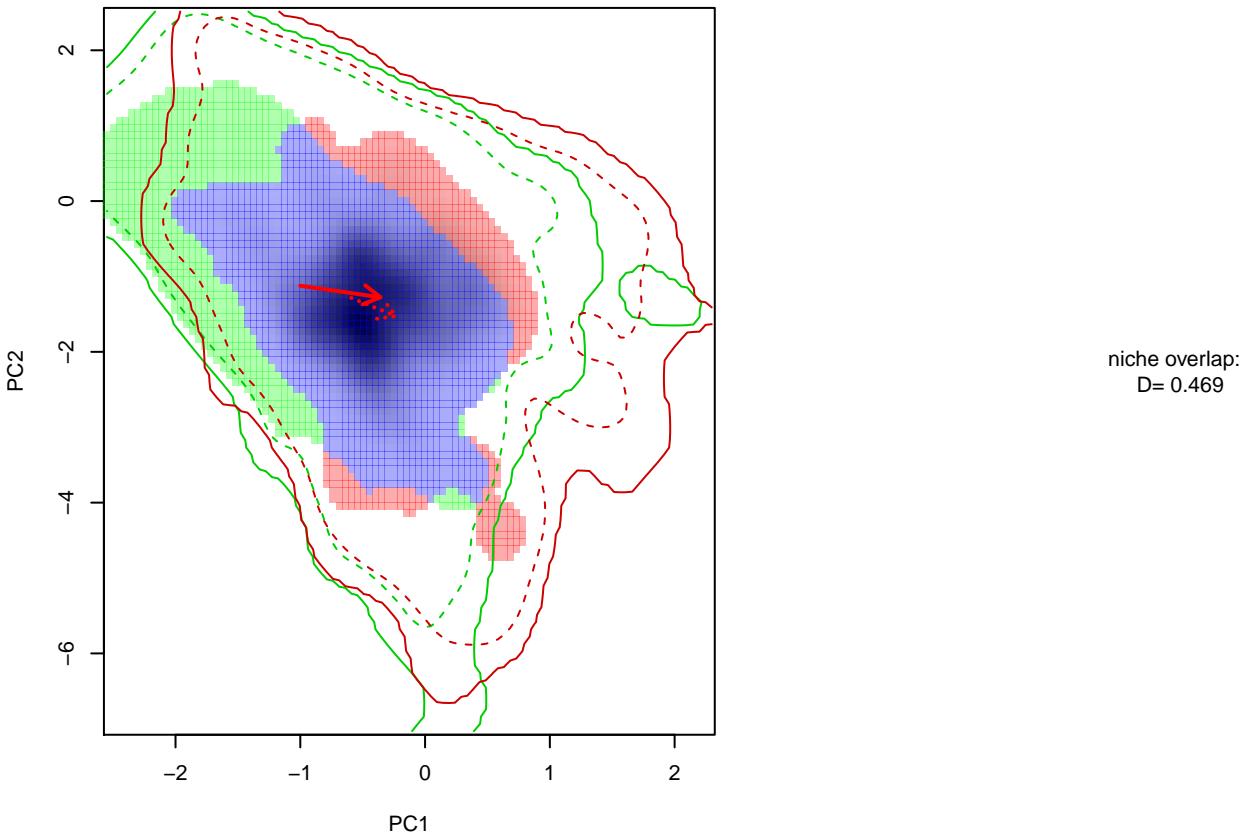
Similarity 2->1



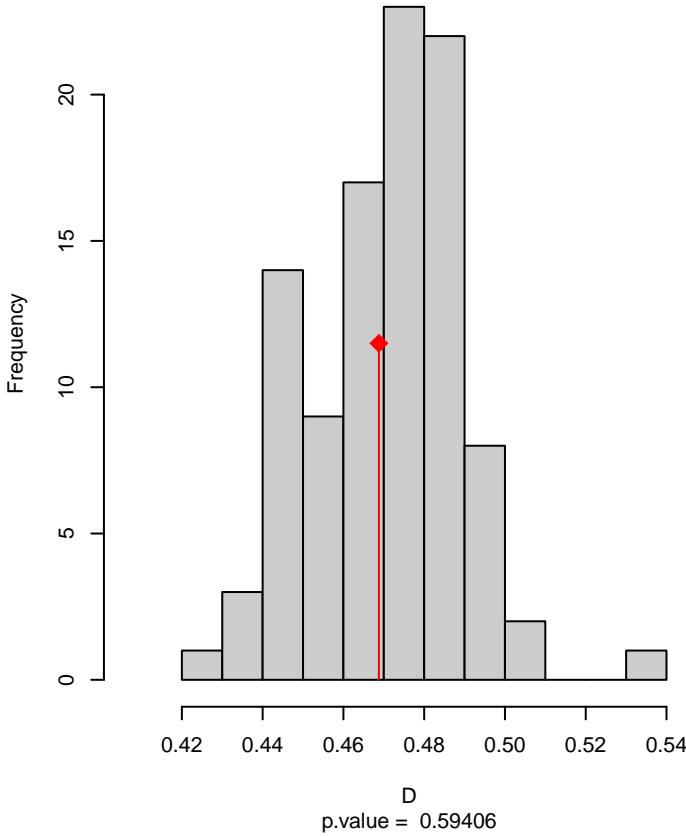
Similarity 1->2



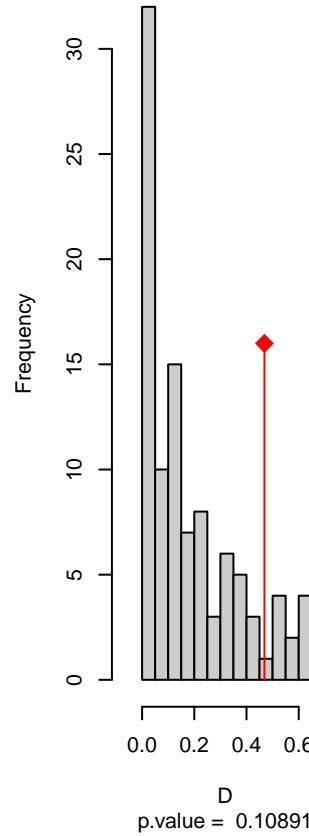
Alopochelidon fucata seasonal overlap-hypo.br



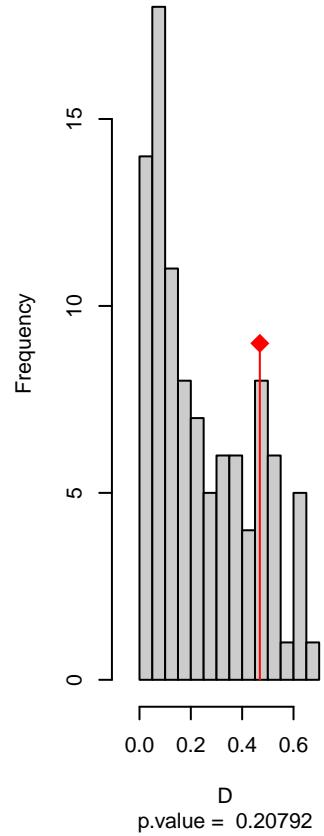
Equivalency



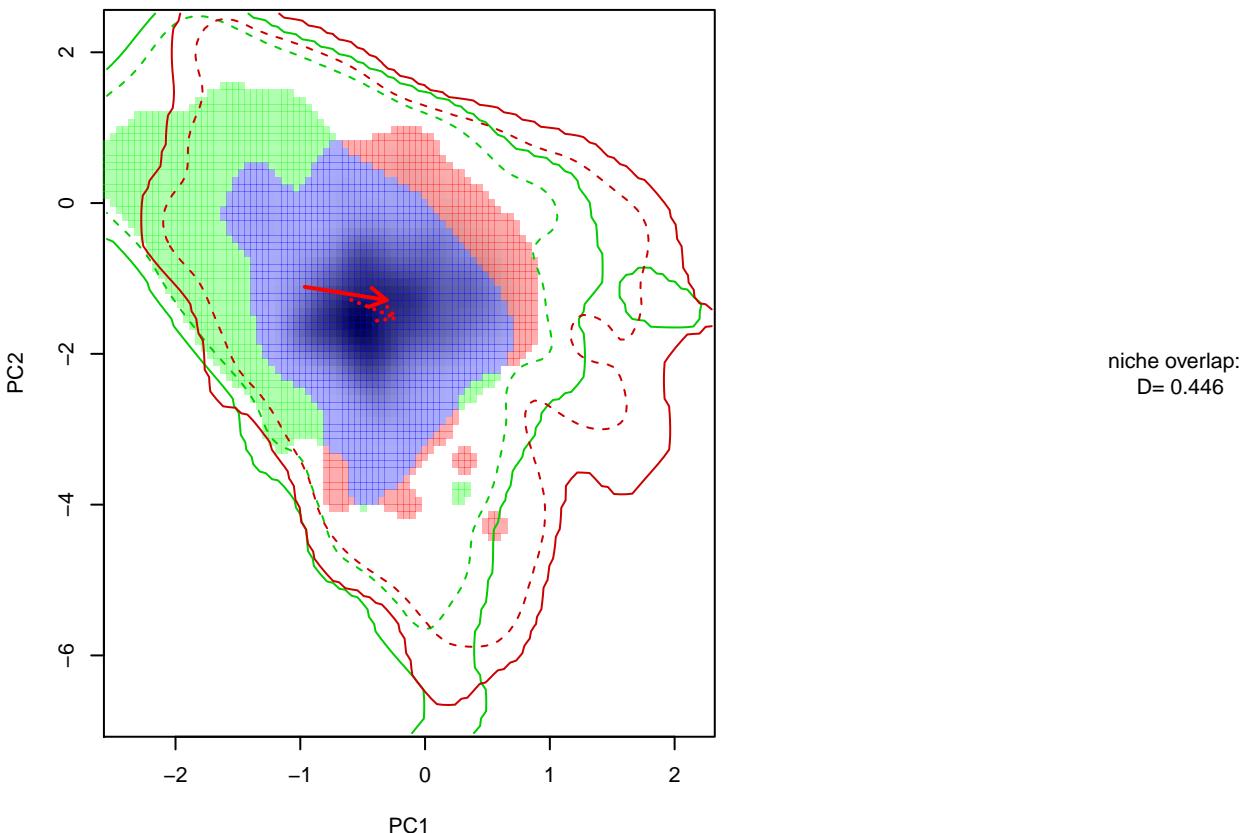
Similarity 2→1



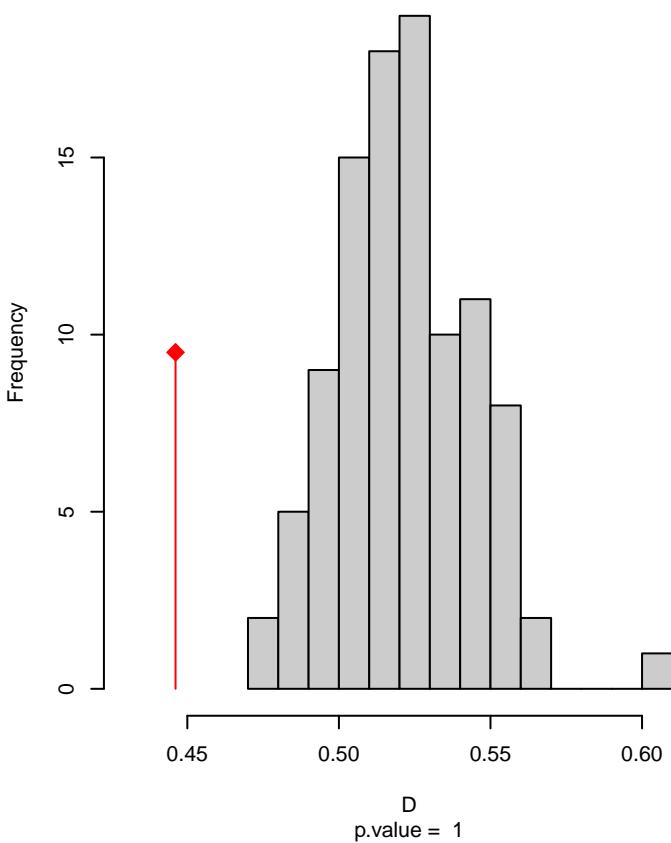
Similarity 1→2



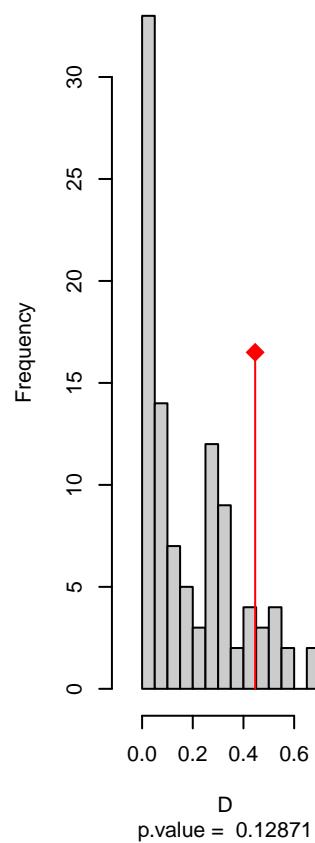
Alopochelidon_fucata seasonal overlap-hypo wi



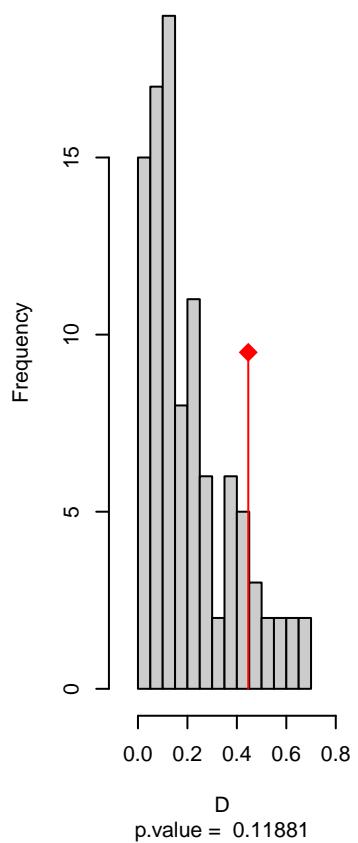
Equivalency



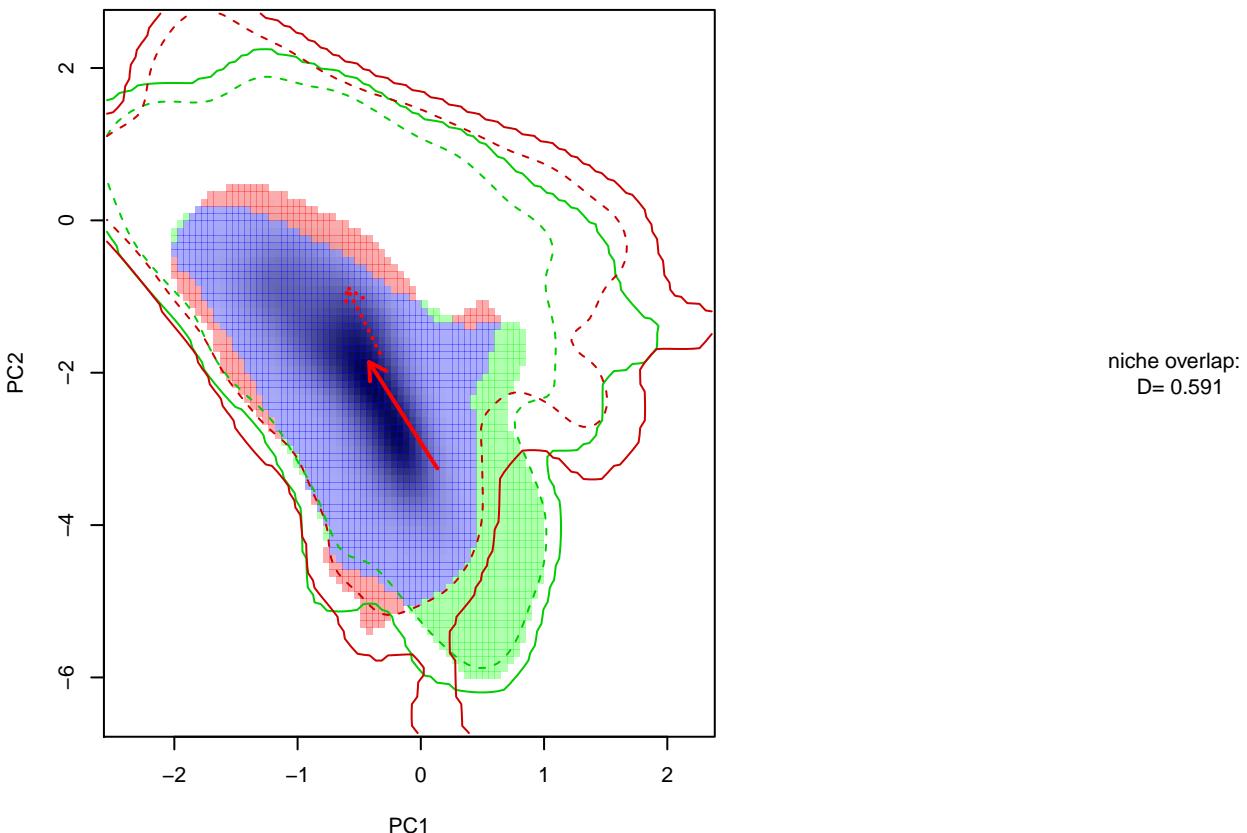
Similarity 2->1



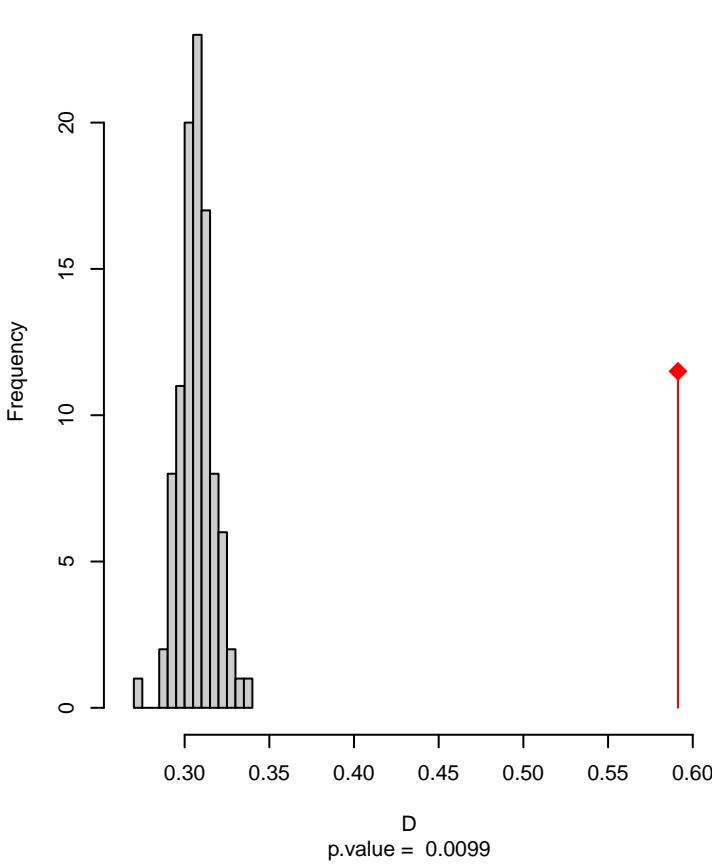
Similarity 1->2



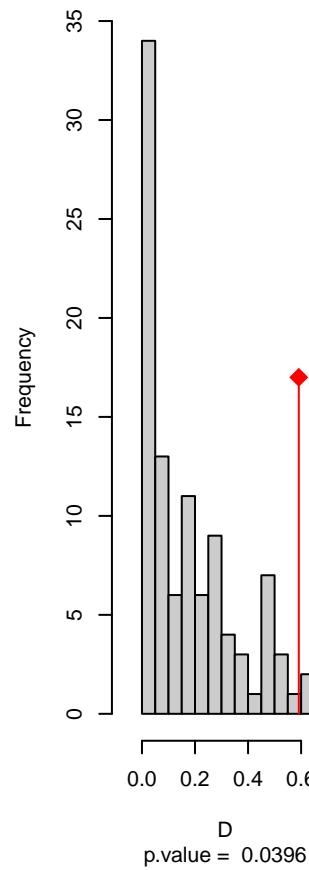
Atticora_fasciata seasonal overlap



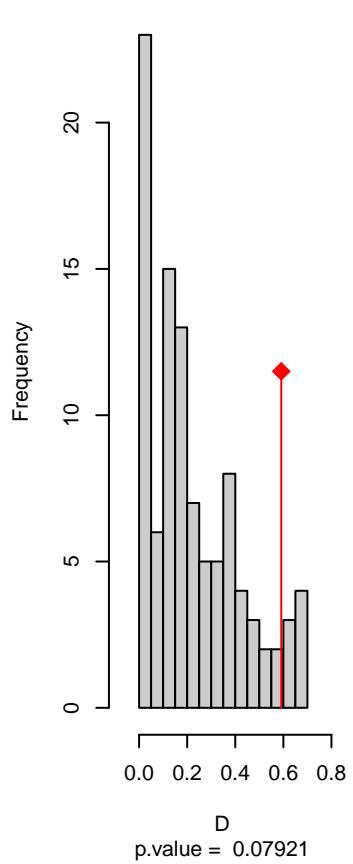
Equivalency



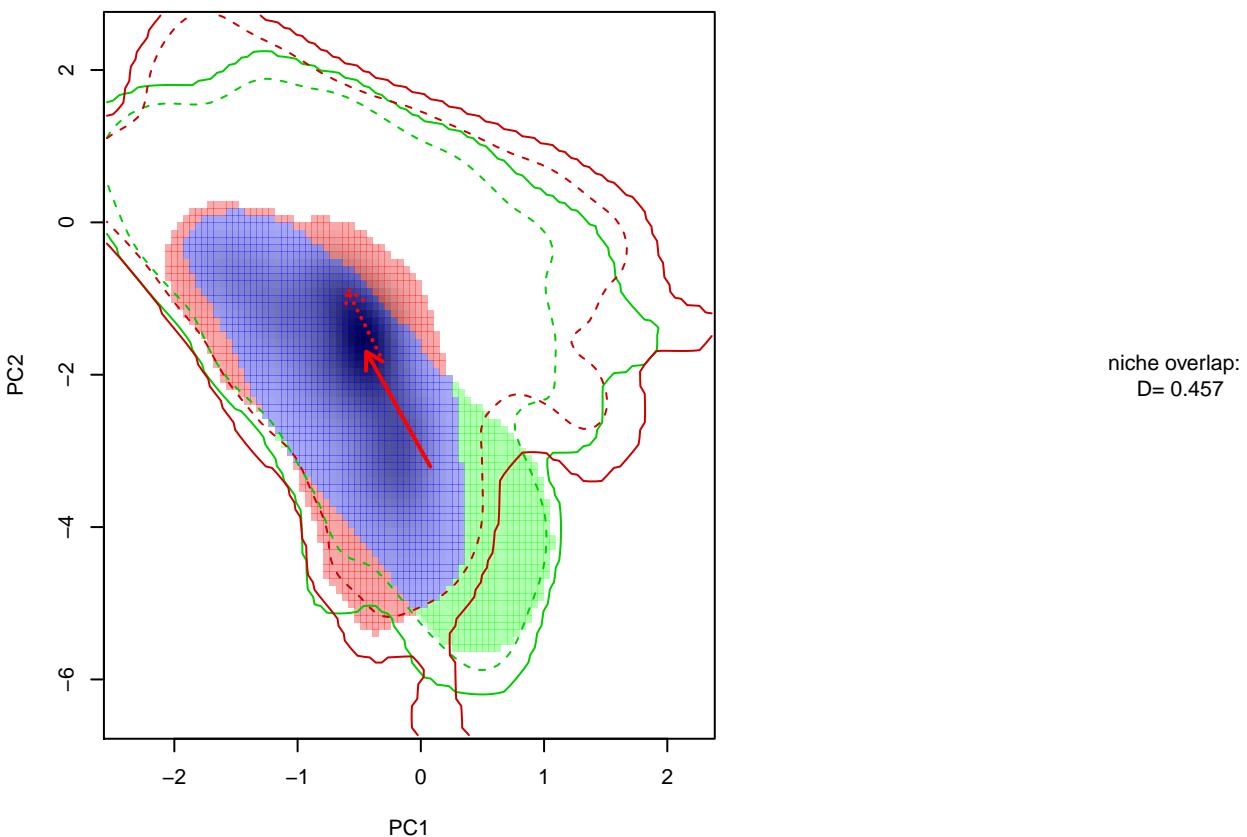
Similarity 2→1



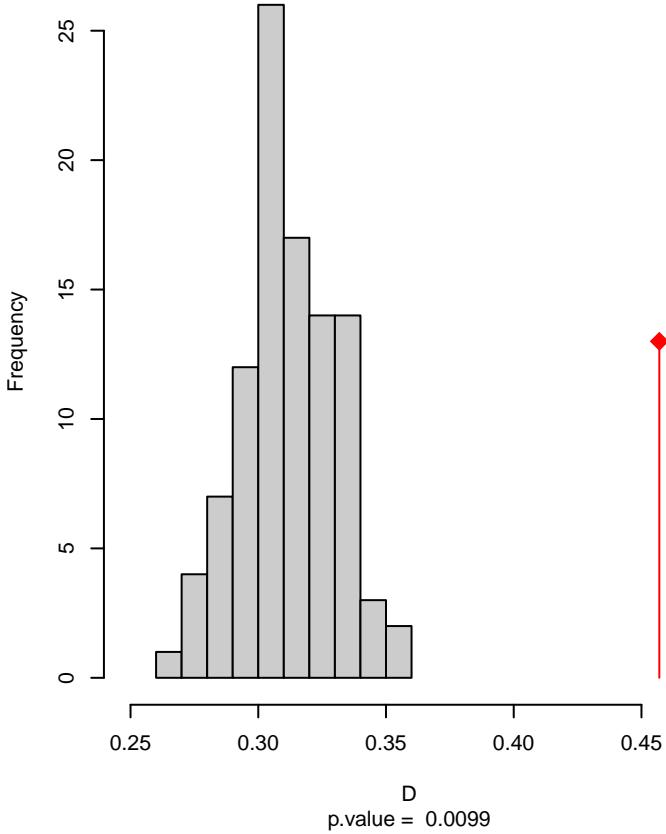
Similarity 1→2



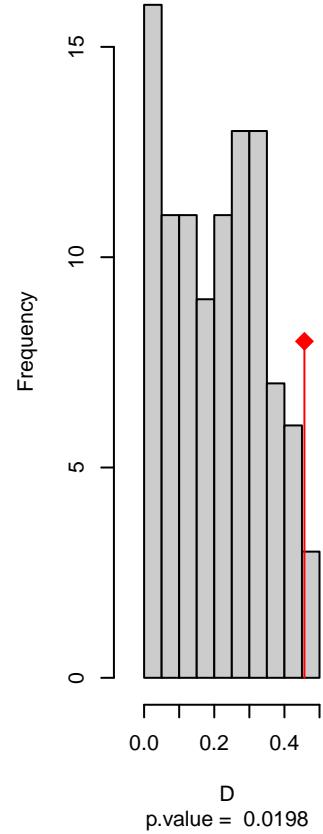
Atticora_melanoleuca seasonal overlap



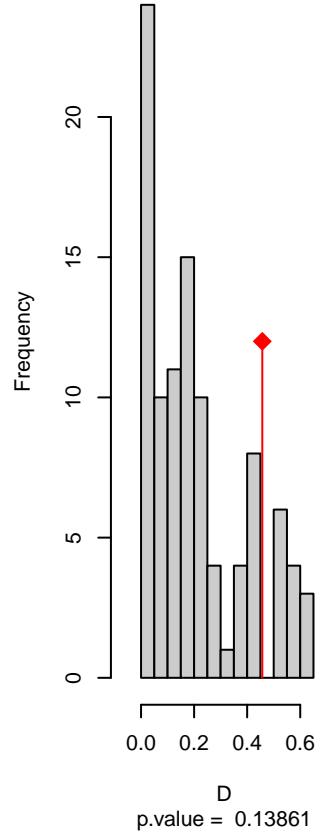
Equivalency



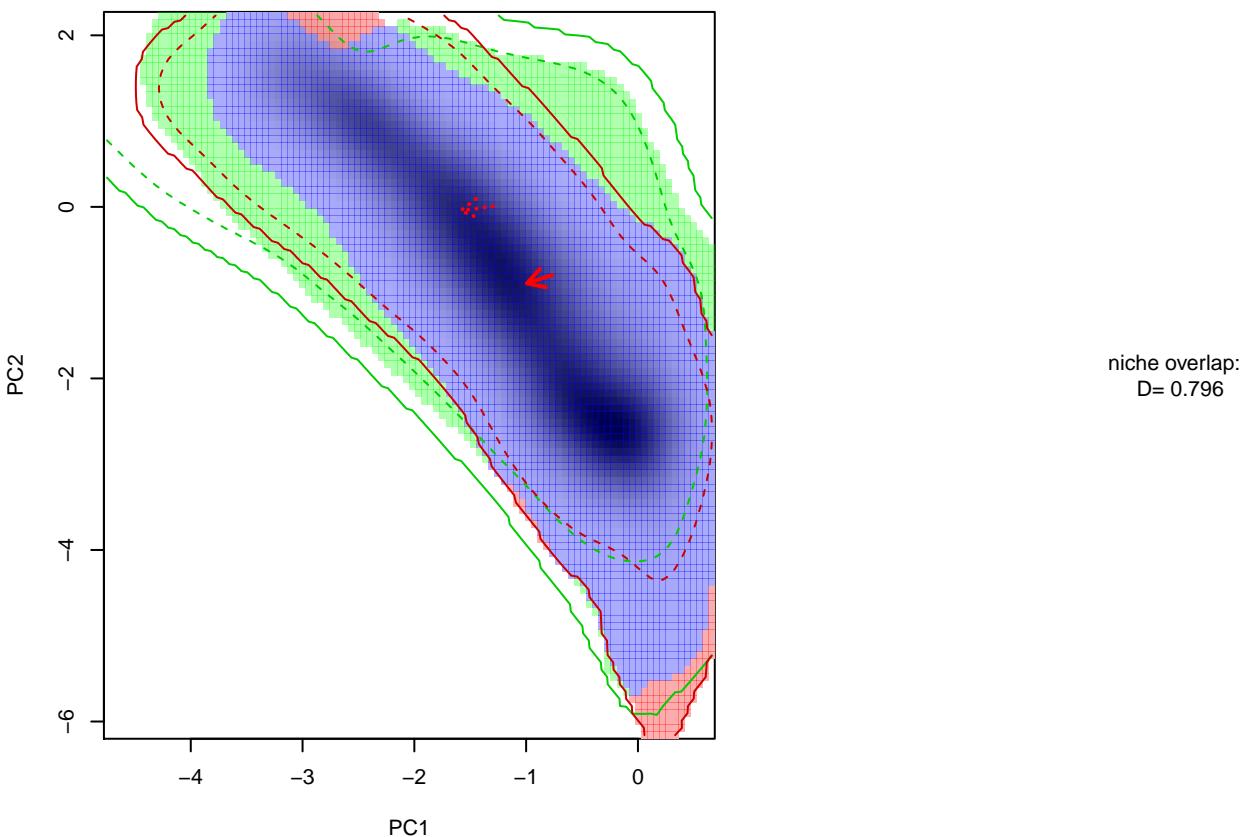
Similarity 2→1



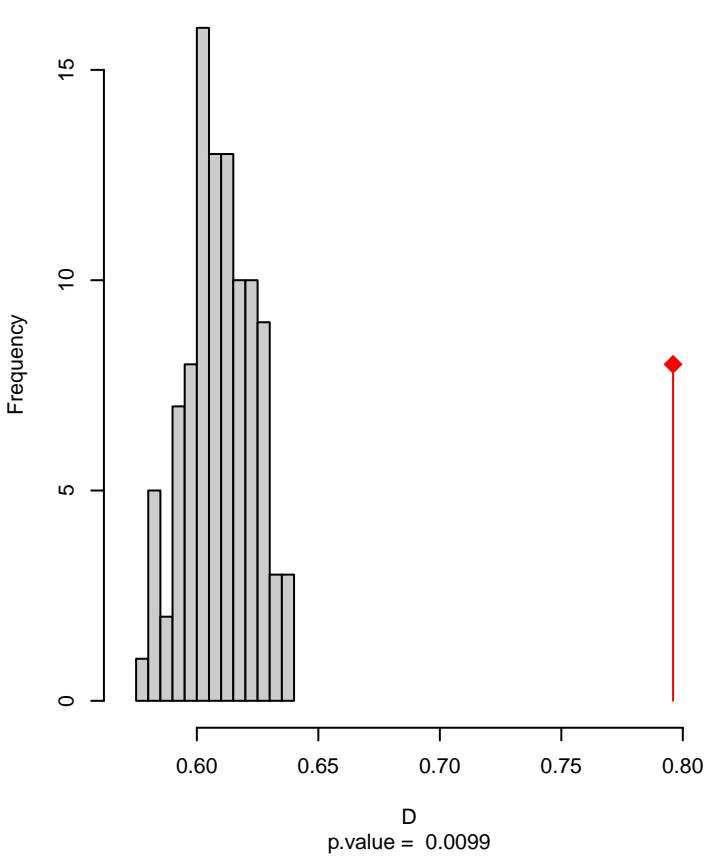
Similarity 1→2



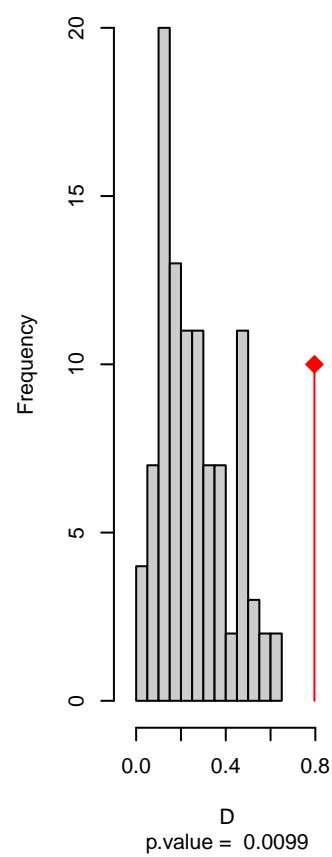
Cecropis_abyssinica seasonal overlap



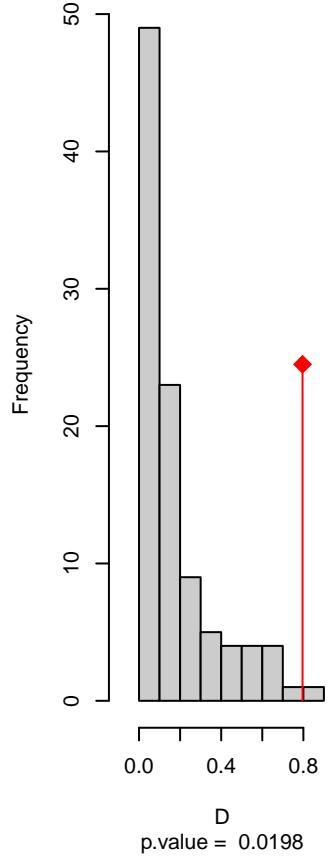
Equivalency



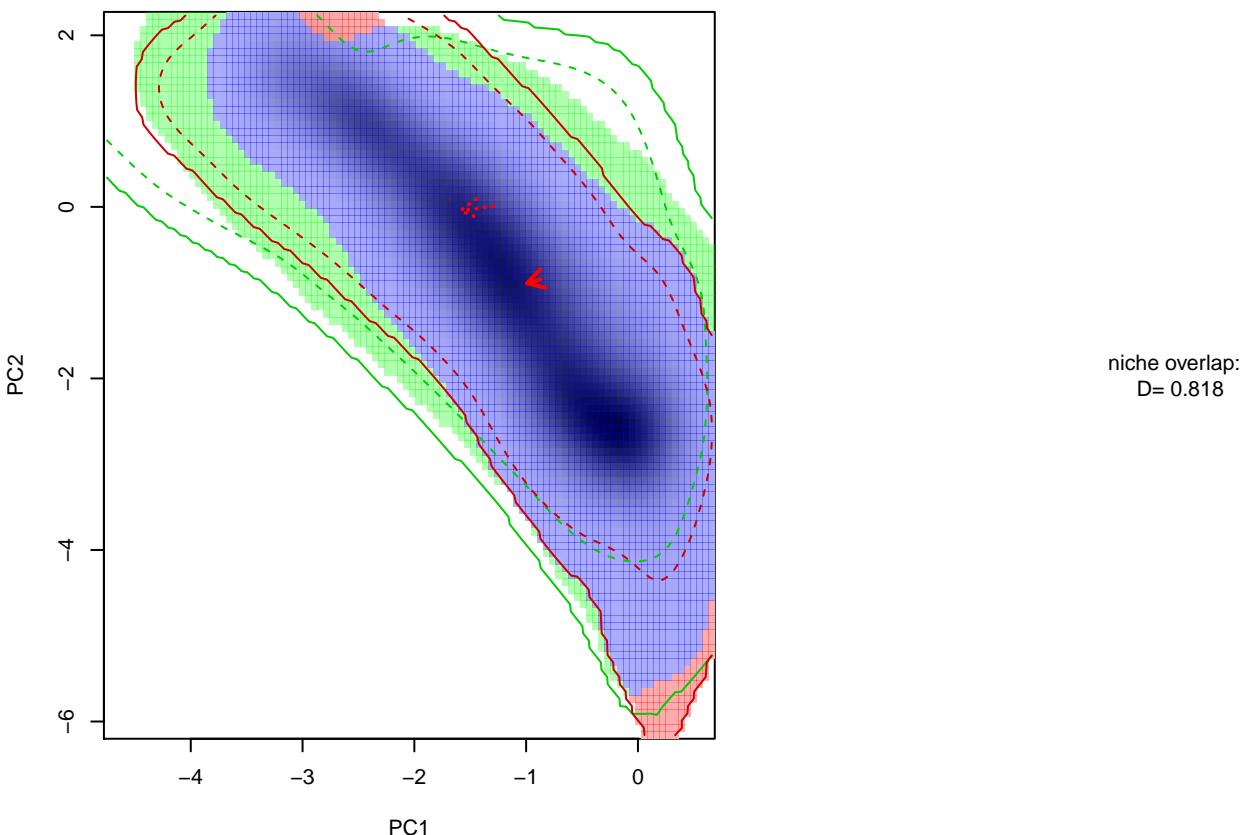
Similarity 2→1



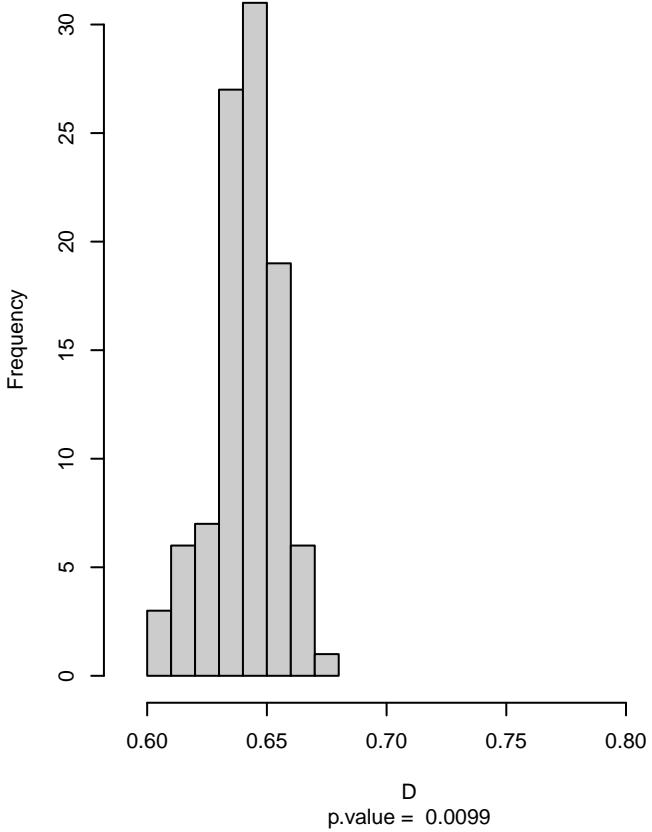
Similarity 1→2



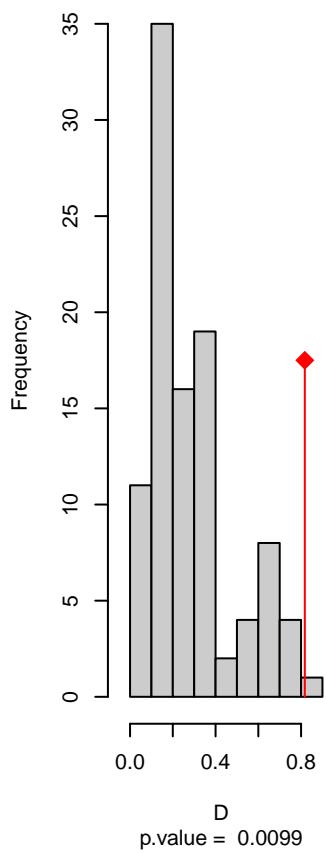
Cecropis_abyssinica seasonal overlap-hypo.br



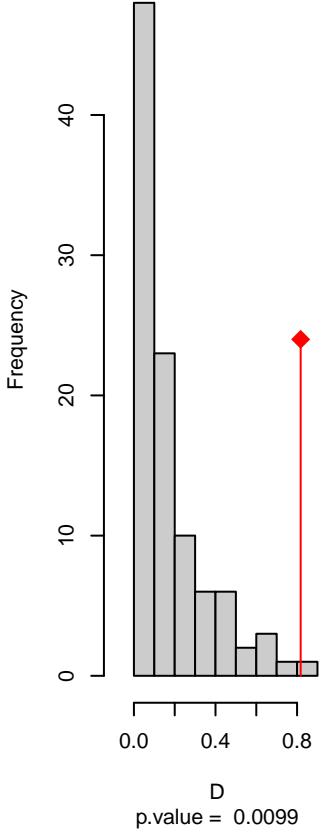
Equivalency



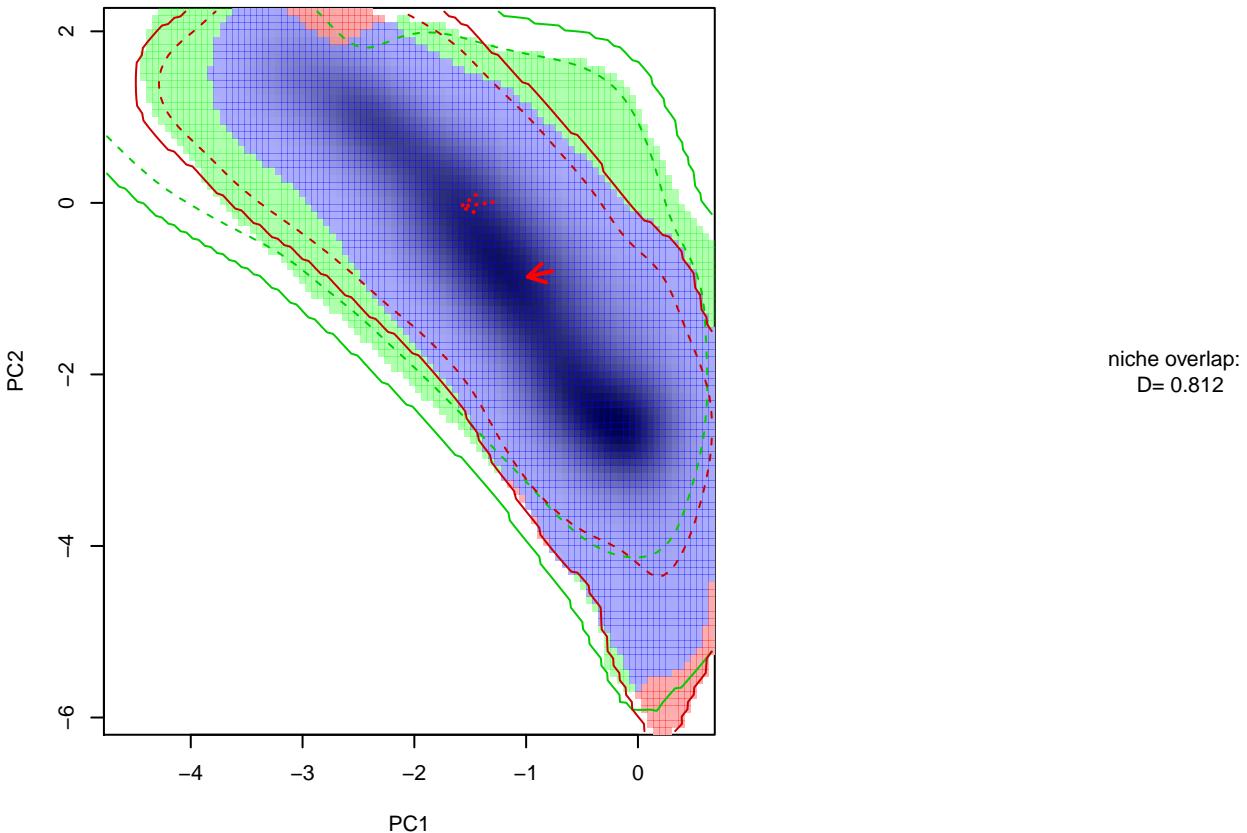
Similarity 2→1



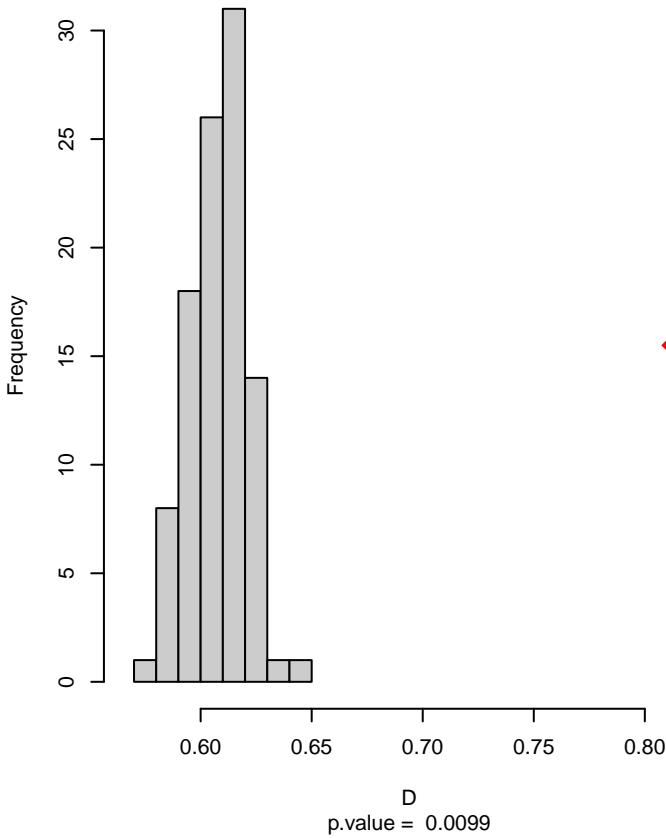
Similarity 1→2



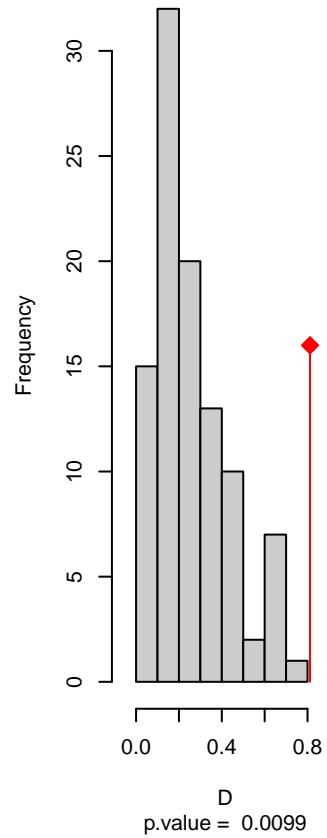
Cecropis_abyssinica seasonal overlap-hypo wi



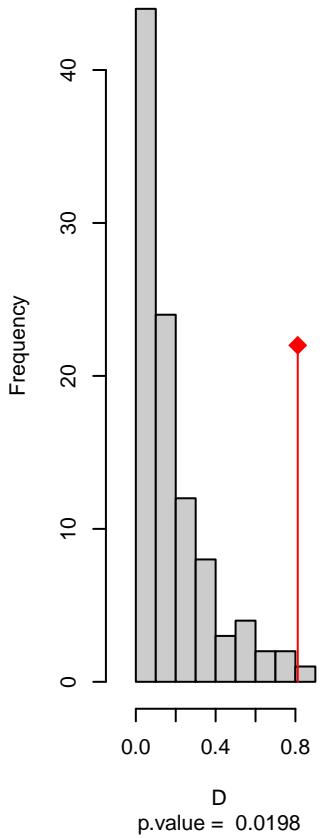
Equivalency



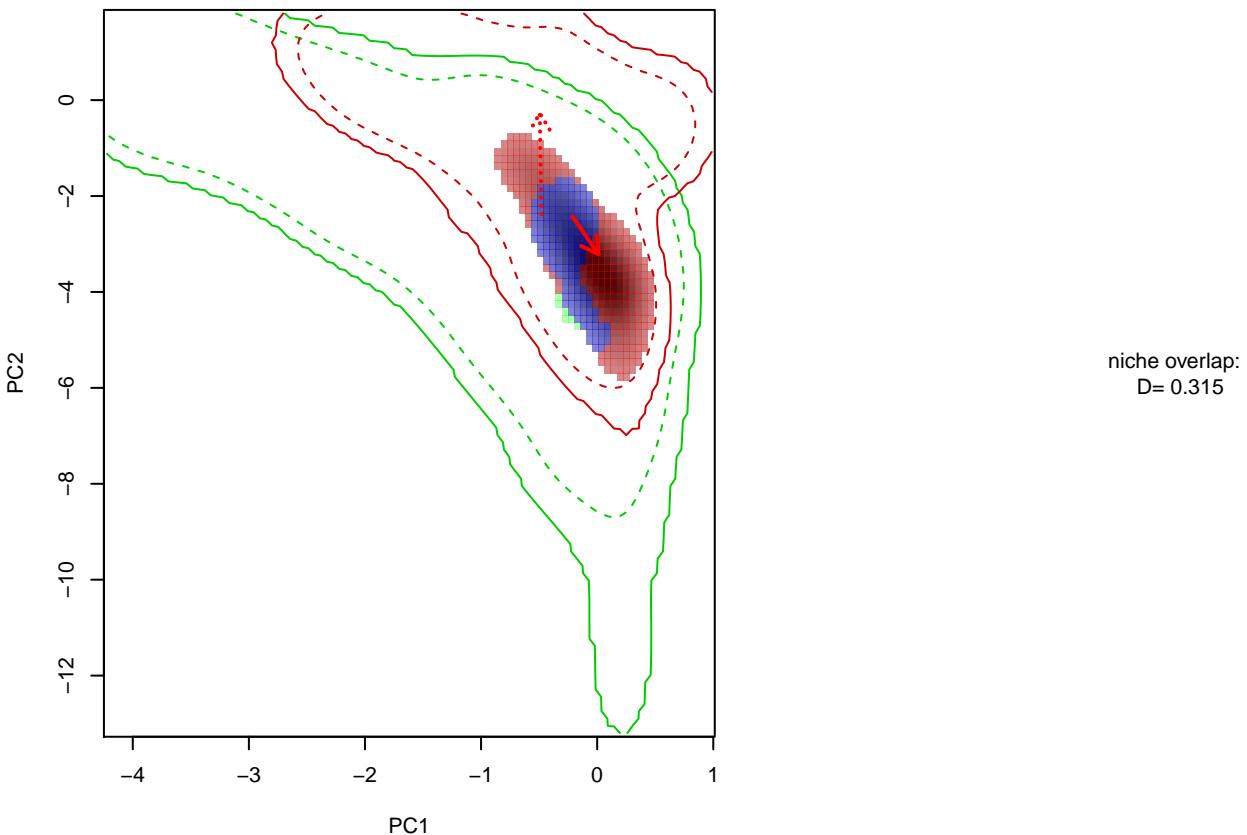
Similarity 2→1



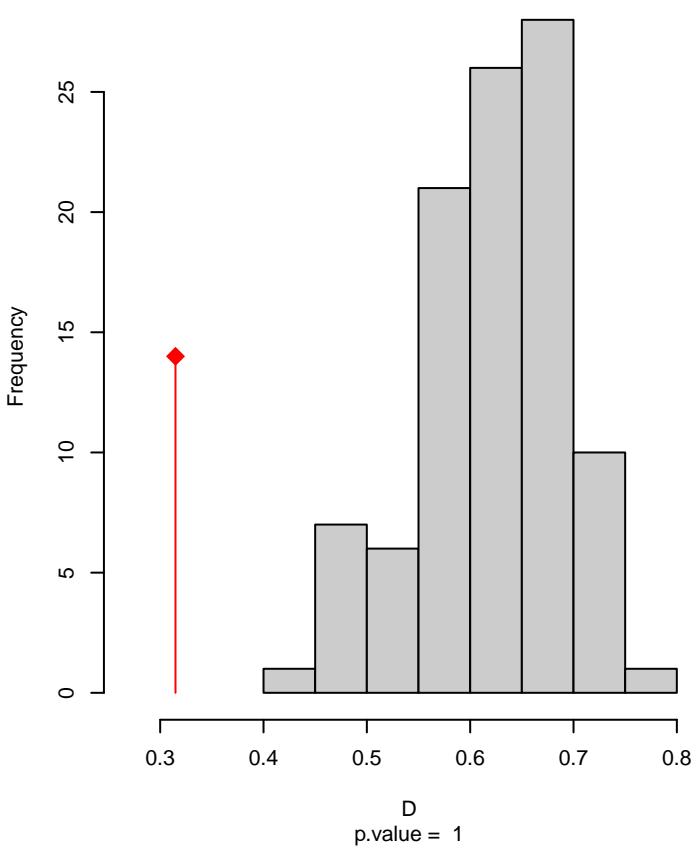
Similarity 1→2



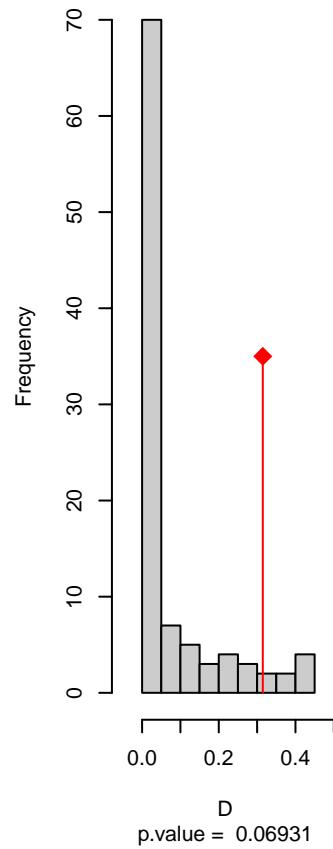
Cecropis_badia seasonal overlap



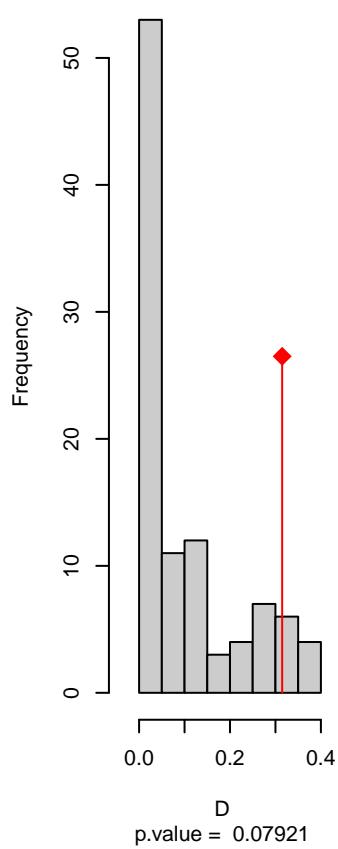
Equivalency



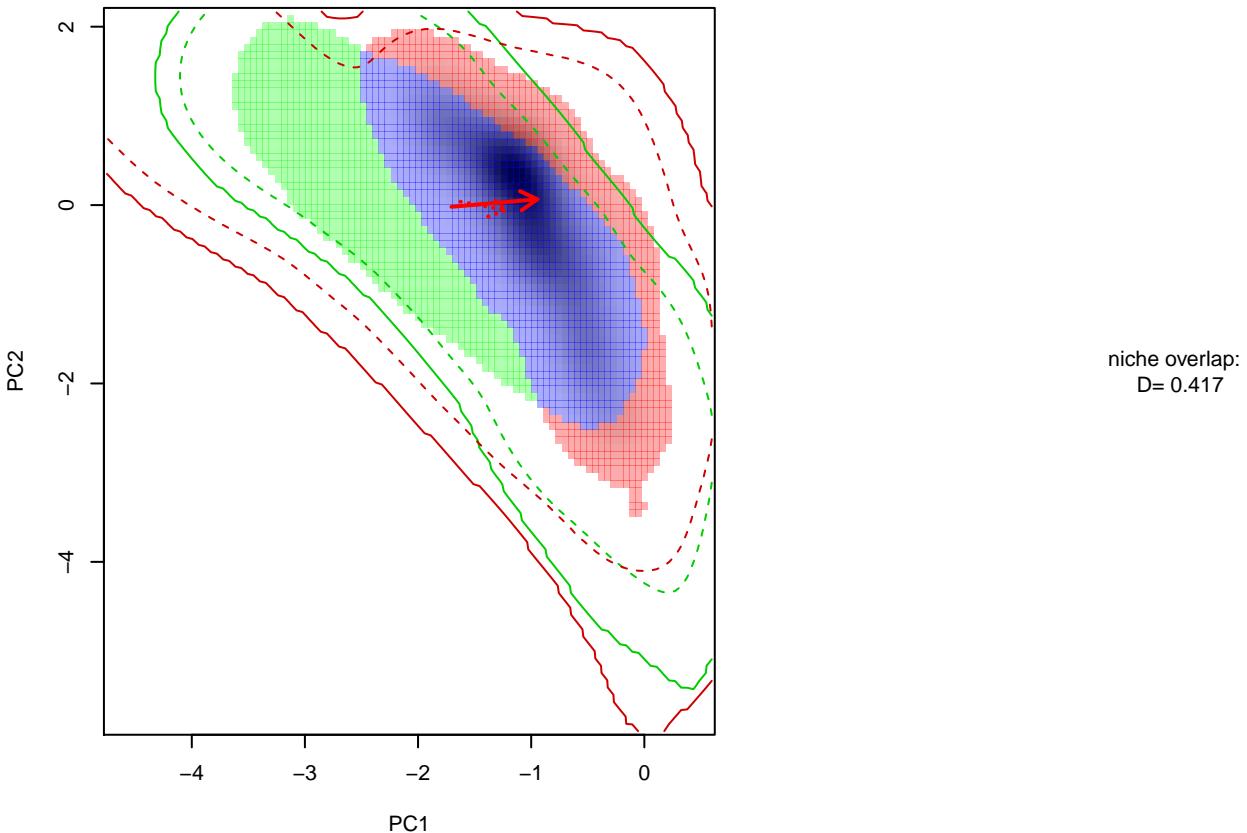
Similarity 2→1



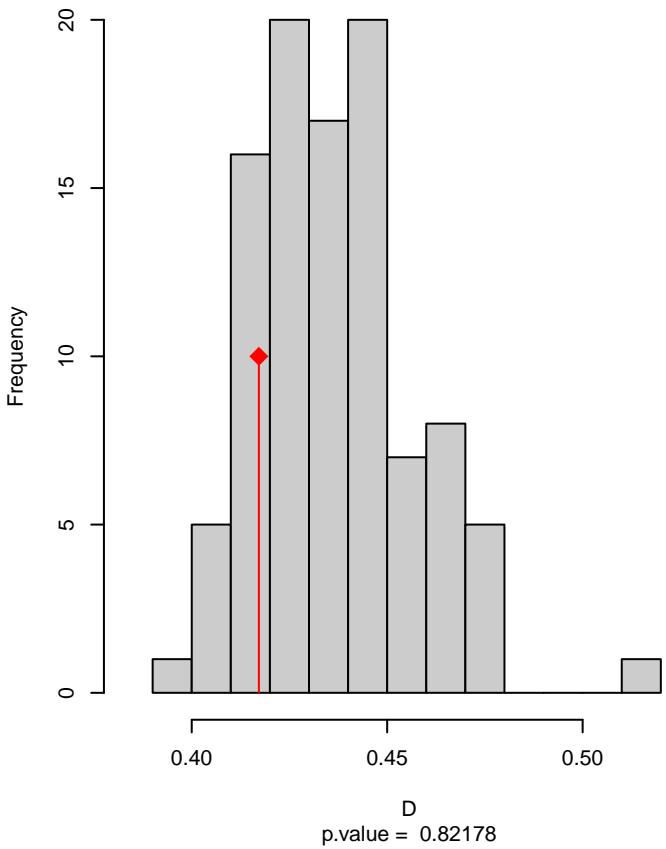
Similarity 1→2



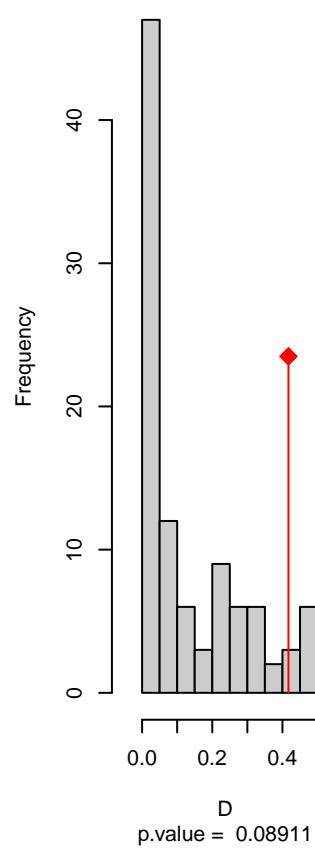
Cecropis_cucullata seasonal overlap



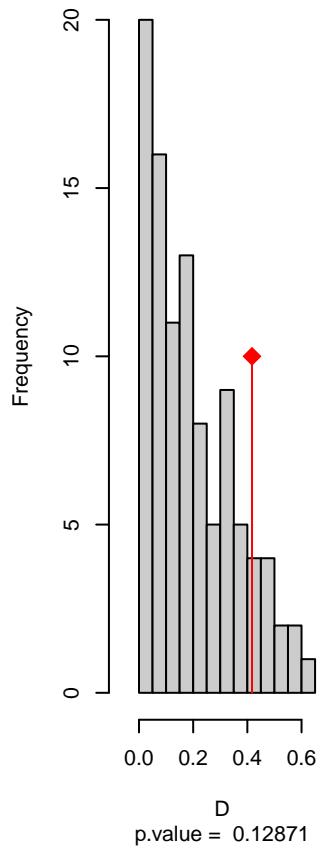
Equivalency



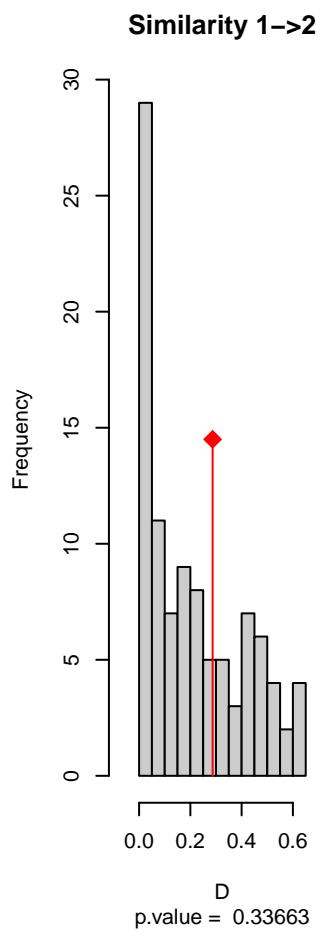
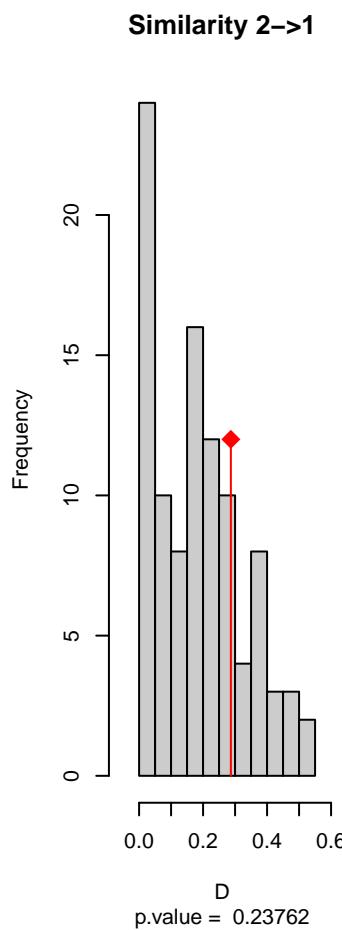
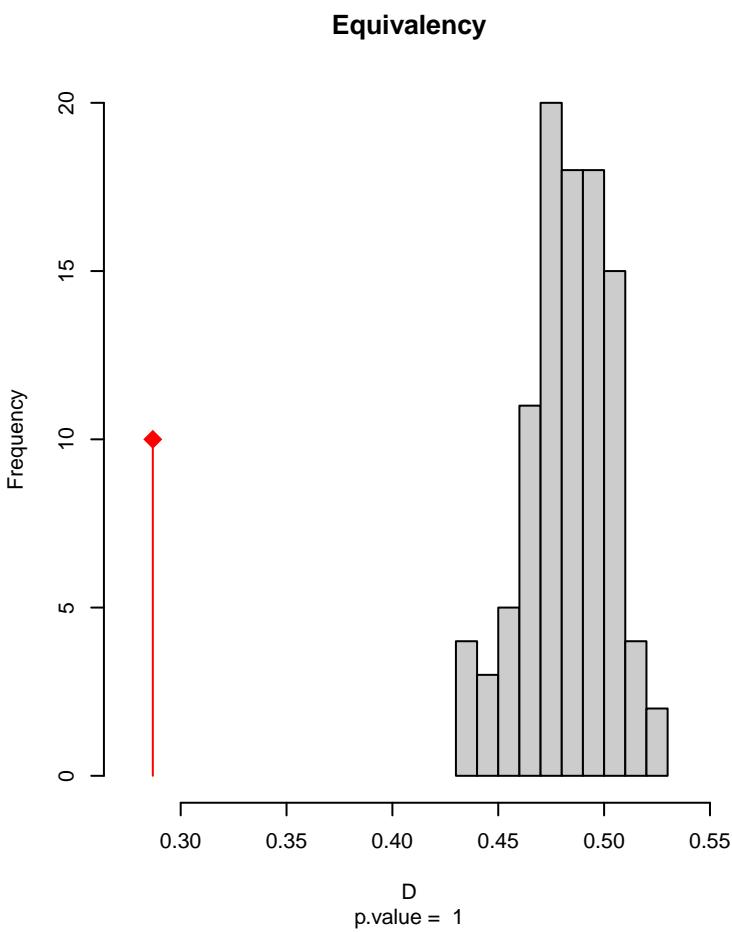
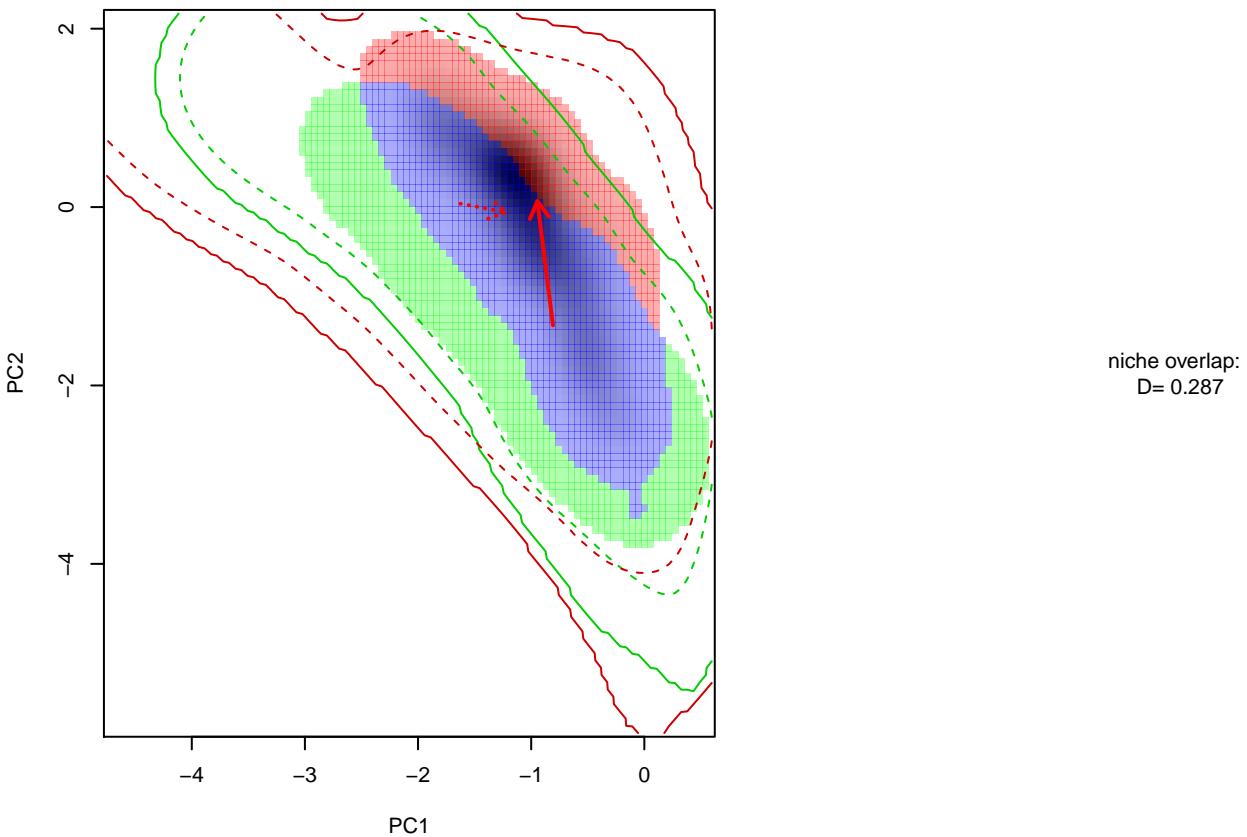
Similarity 2→1



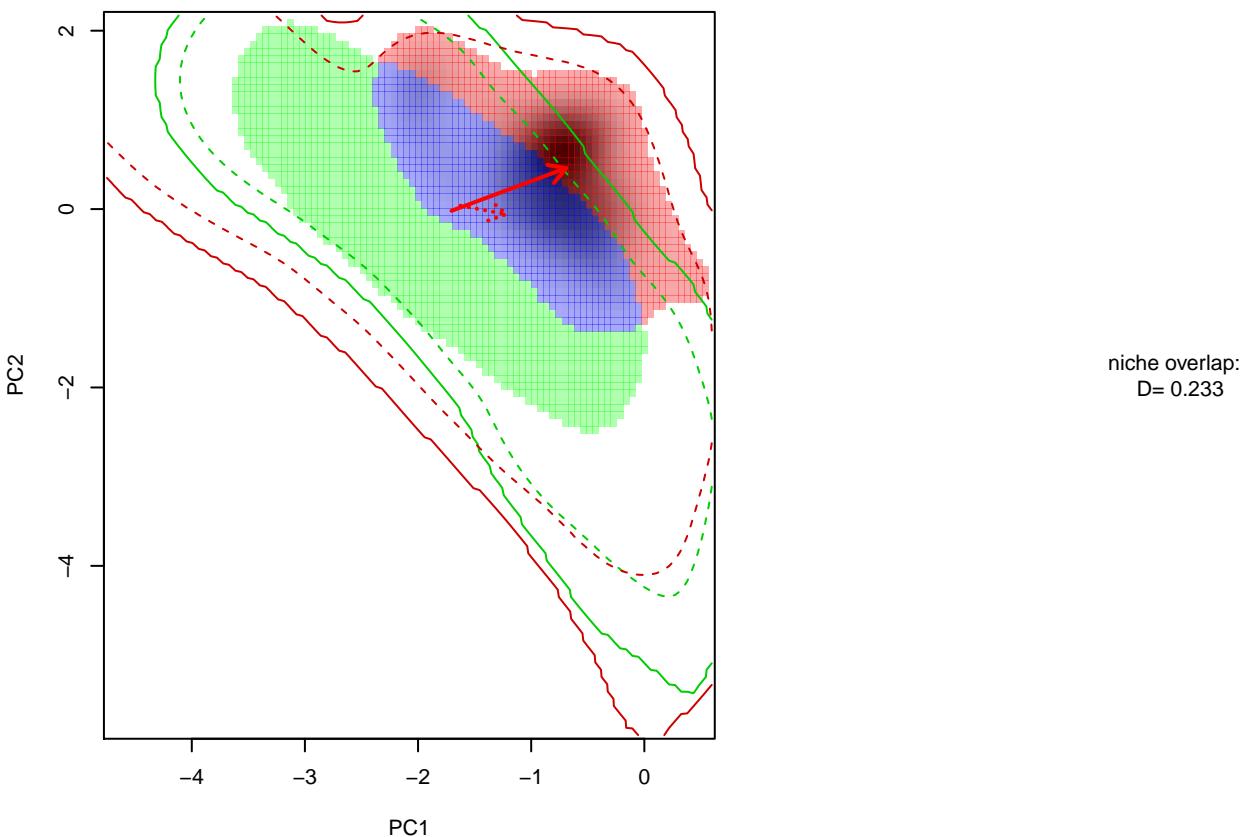
Similarity 1→2



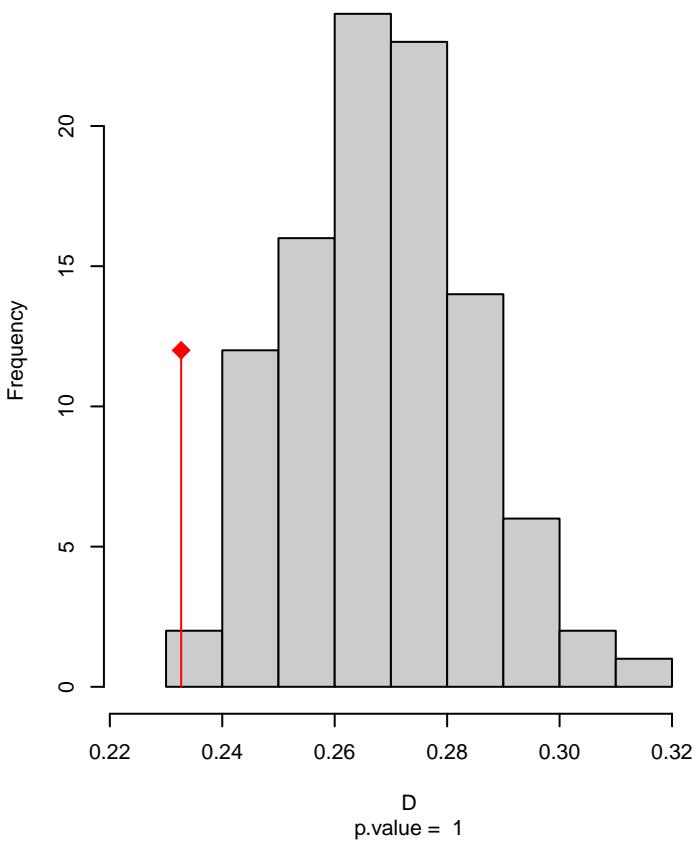
Cecropis_cucullata seasonal overlap-hypo.br



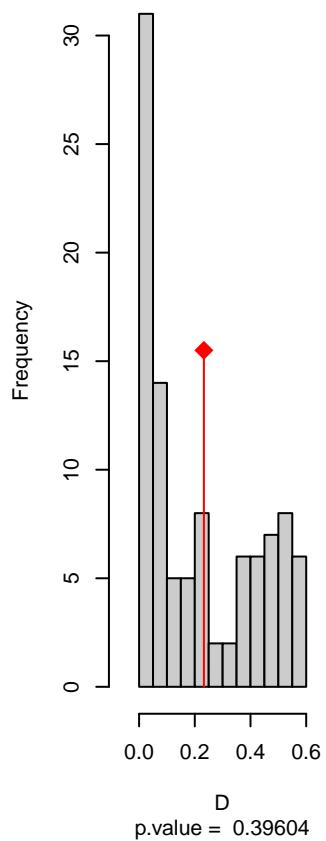
Cecropis_cucullata seasonal overlap-hypo wi



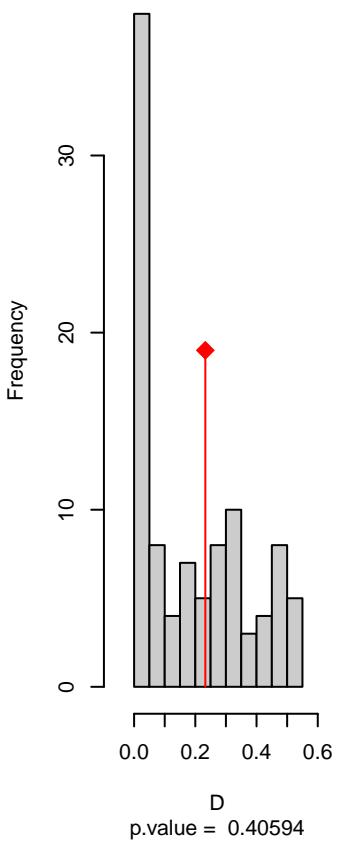
Equivalency



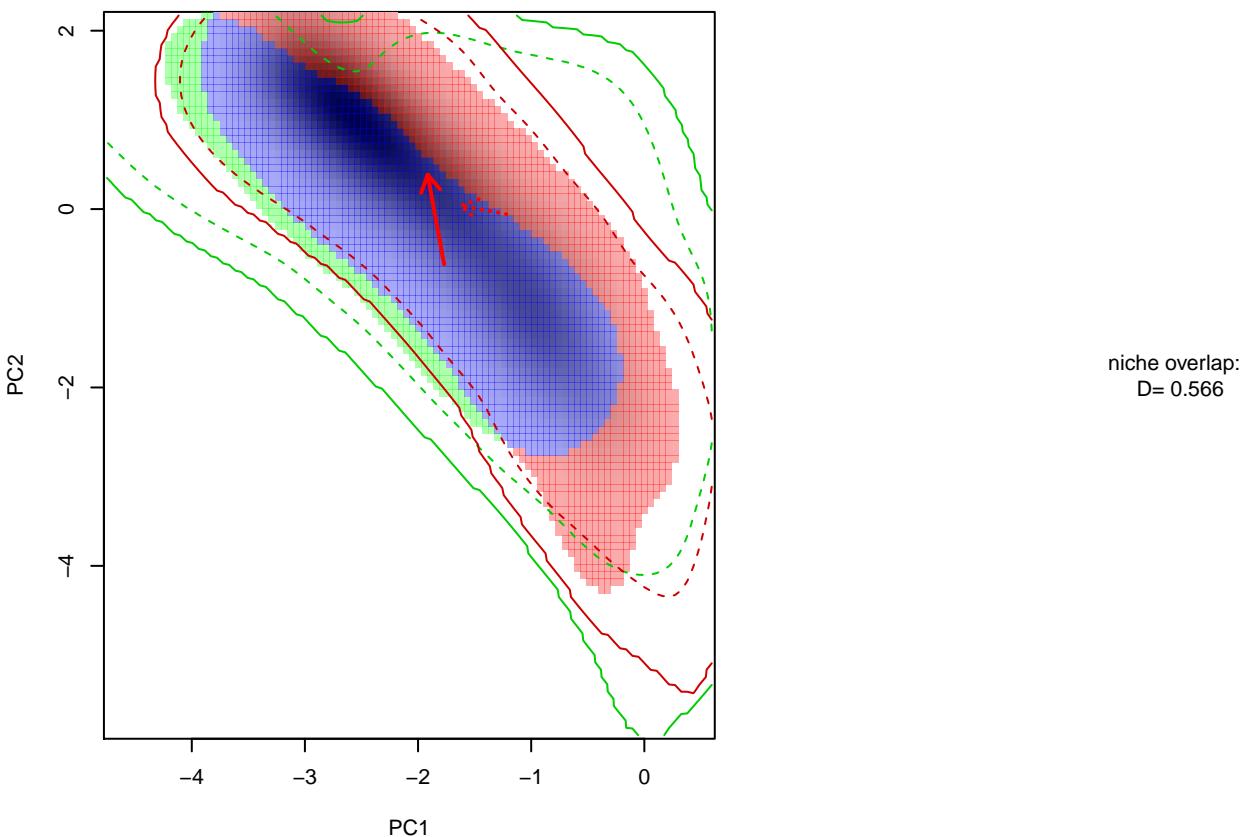
Similarity 2→1



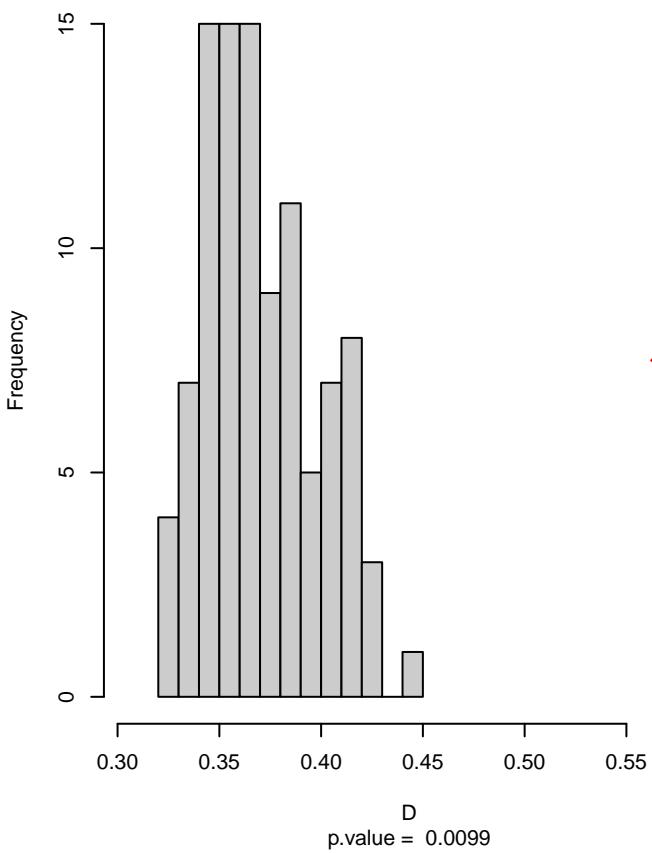
Similarity 1→2



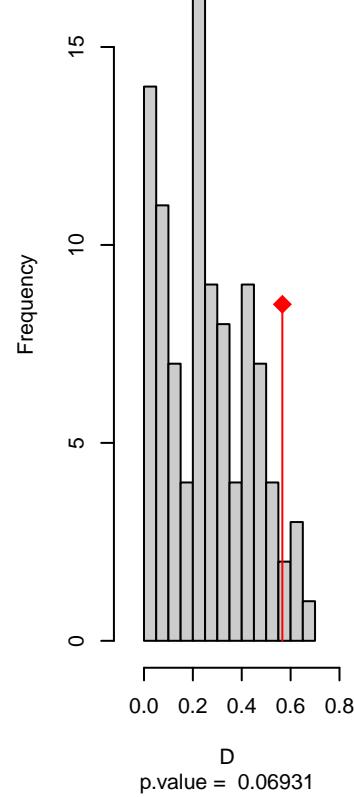
Cecropis_domicella seasonal overlap



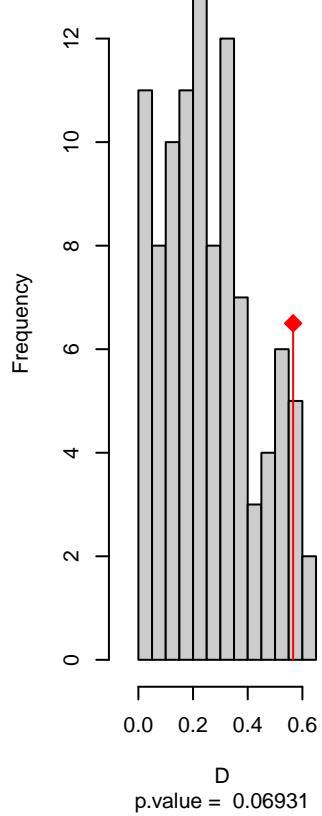
Equivalency



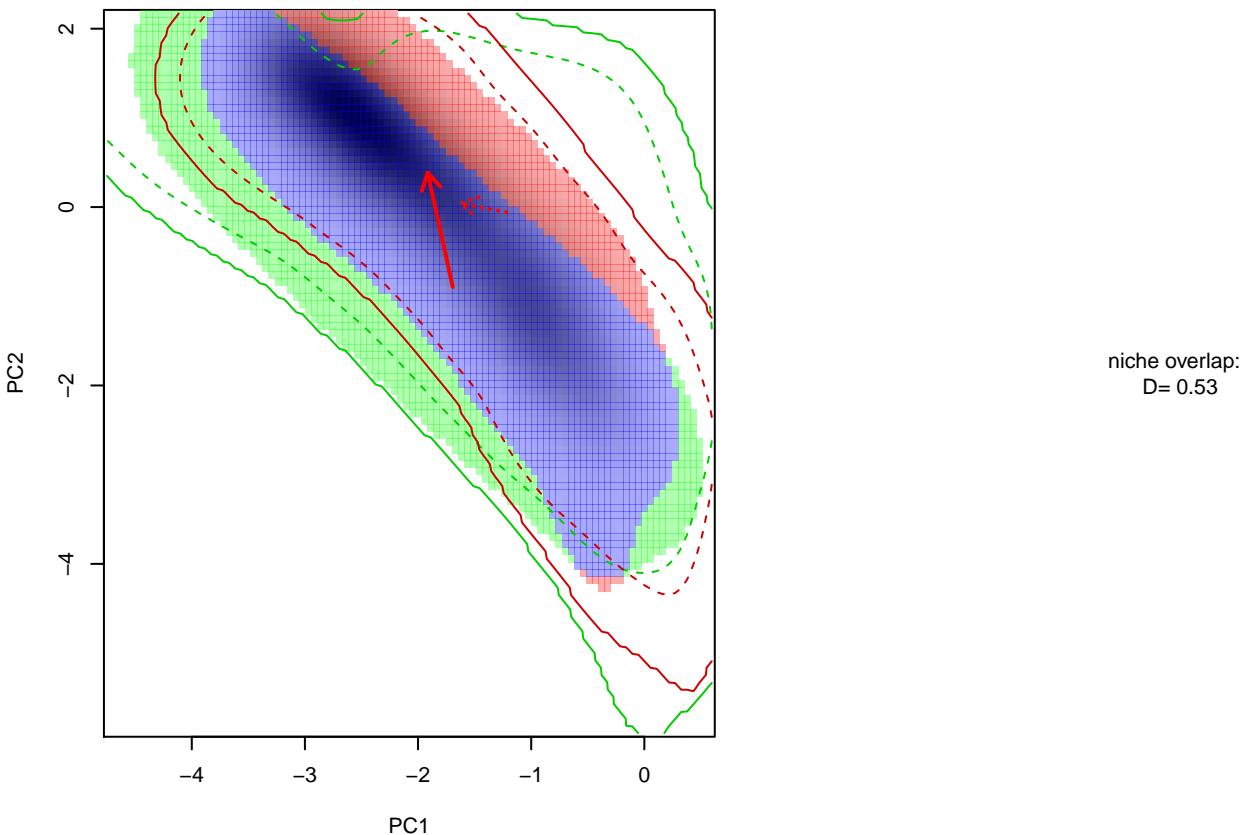
Similarity 2→1



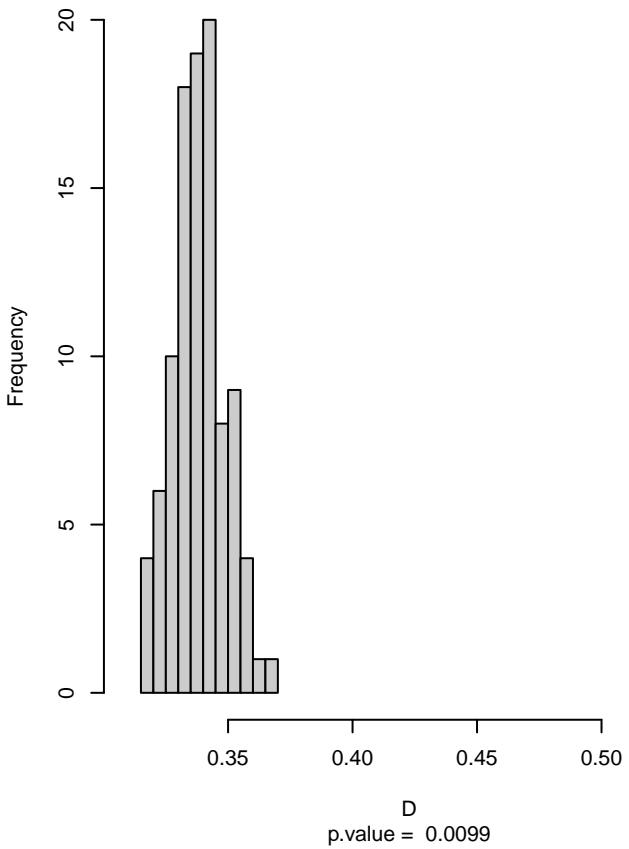
Similarity 1→2



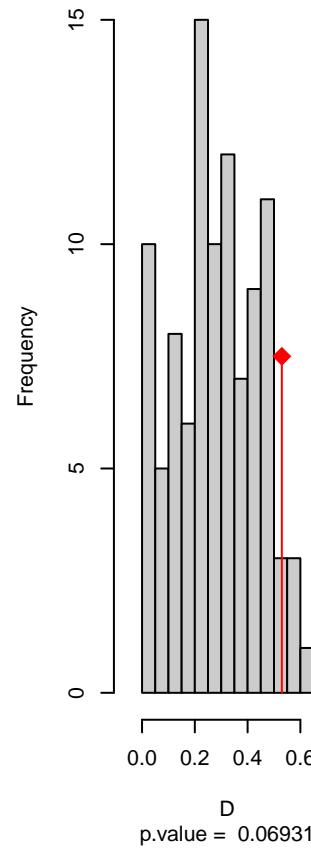
Cecropis_domicella seasonal overlap-hypo.br



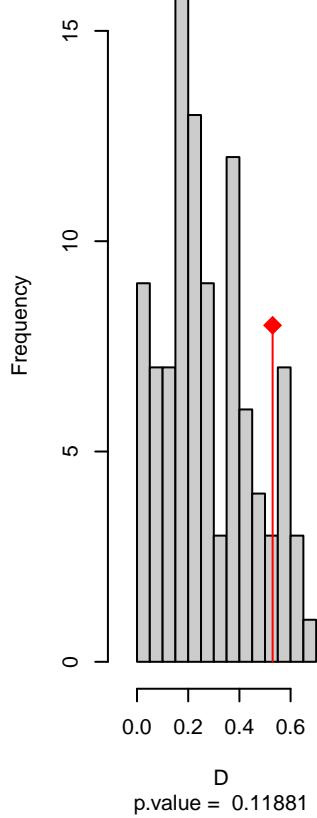
Equivalency



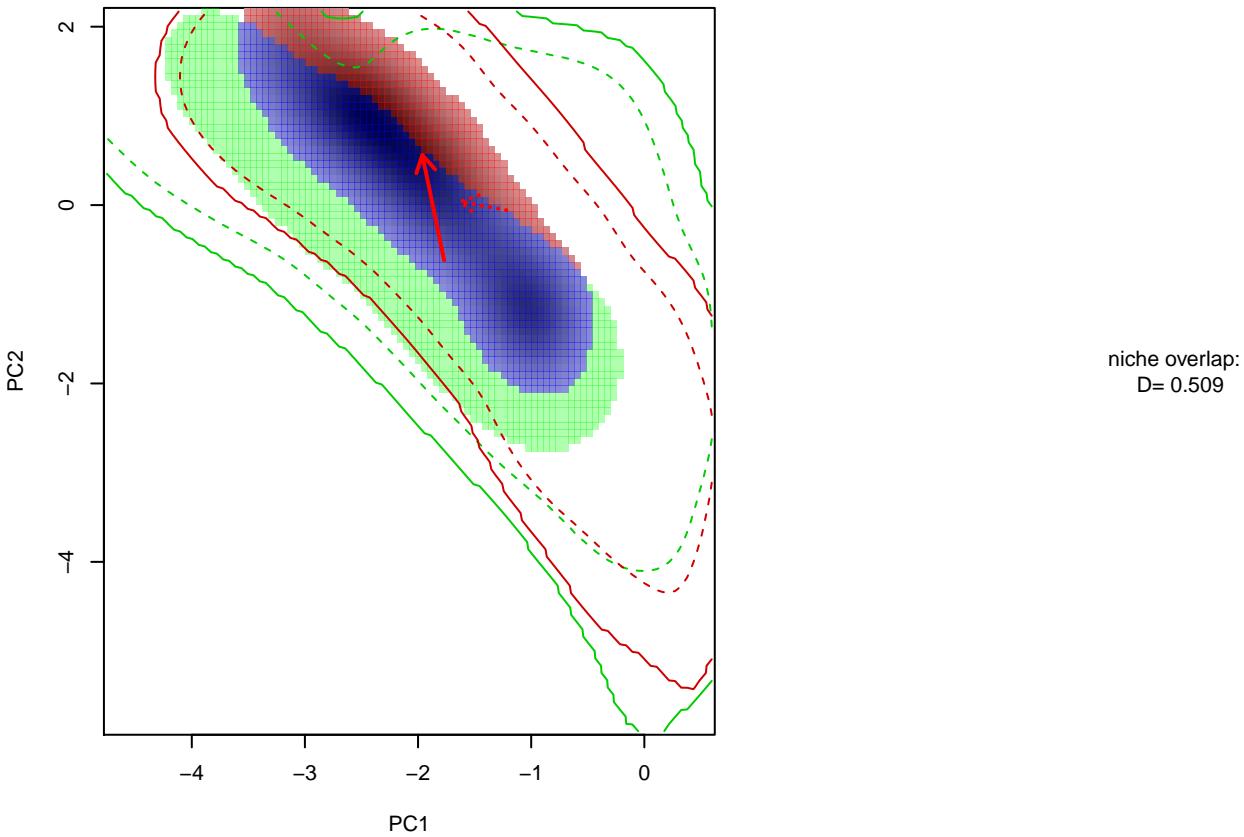
Similarity 2→1



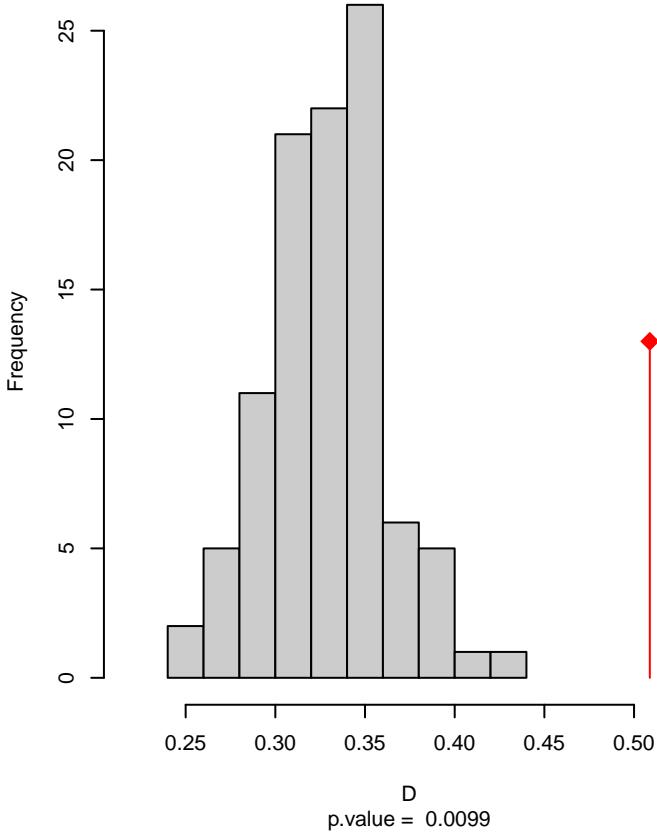
Similarity 1→2



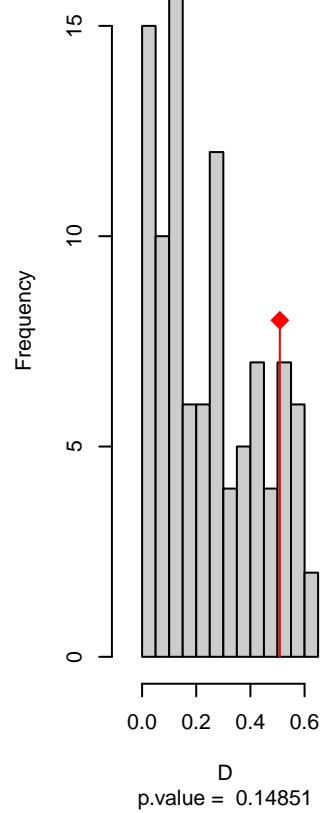
Cecropis_domicella seasonal overlap-hypo wi



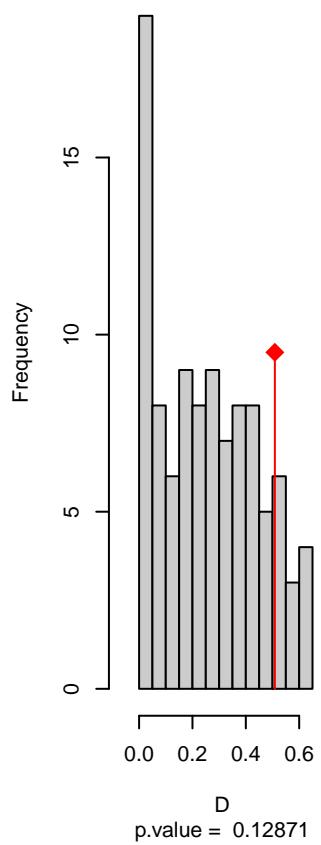
Equivalency



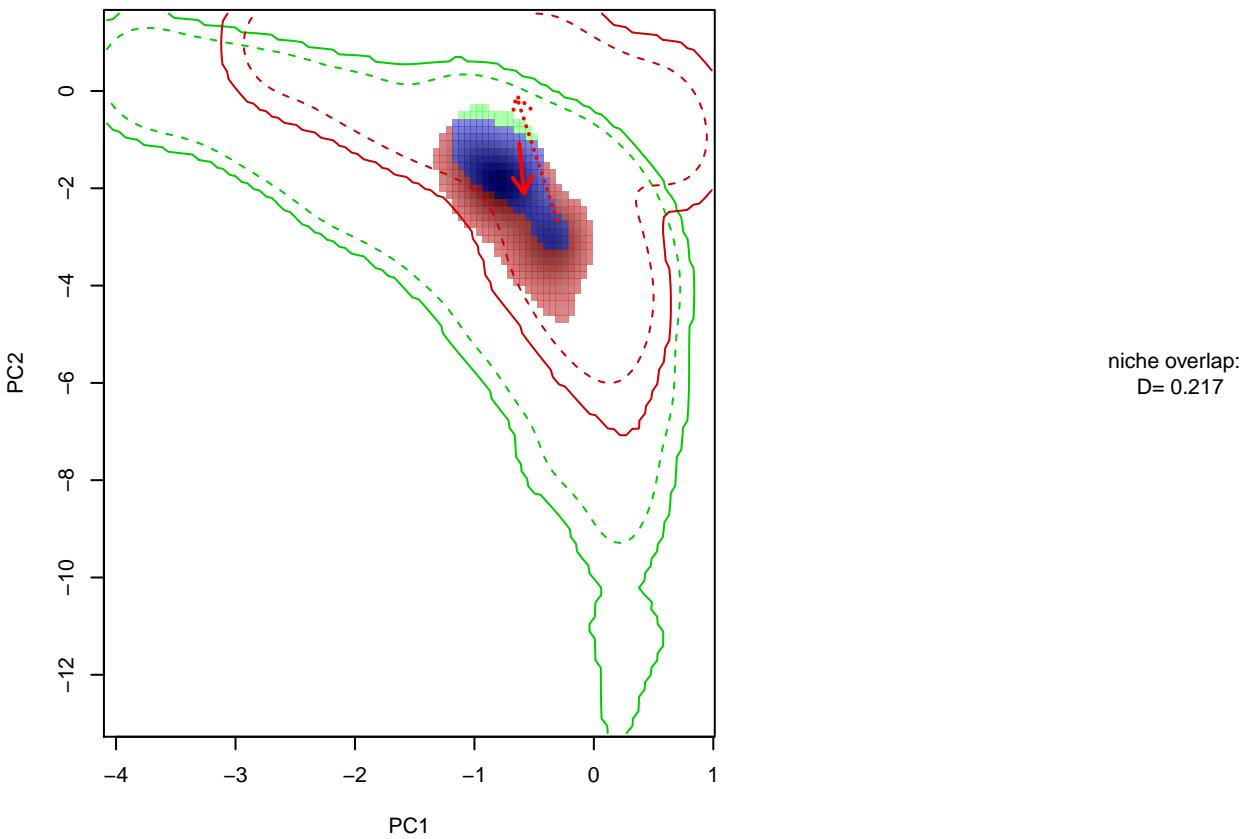
Similarity 2→1



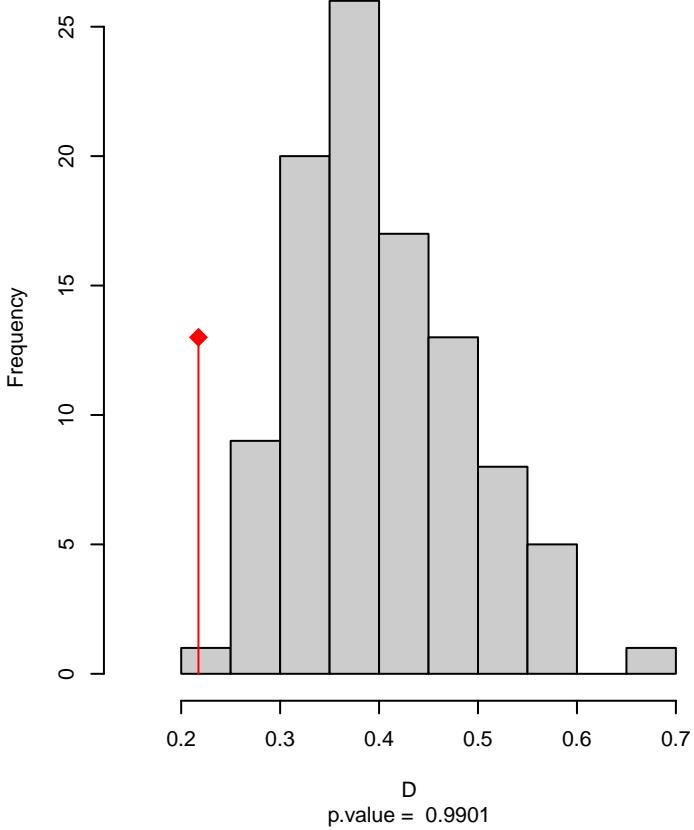
Similarity 1→2



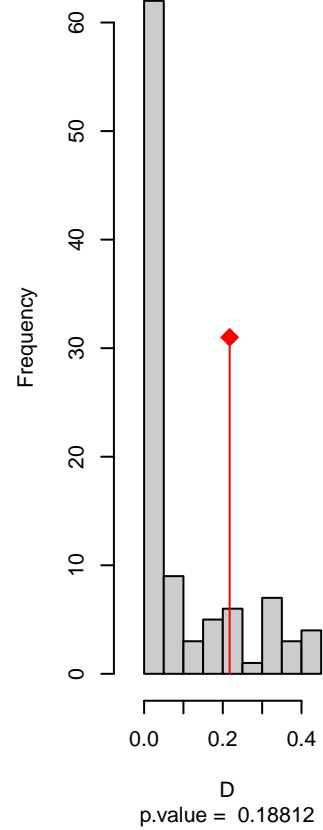
Cecropis_hyerythra seasonal overlap



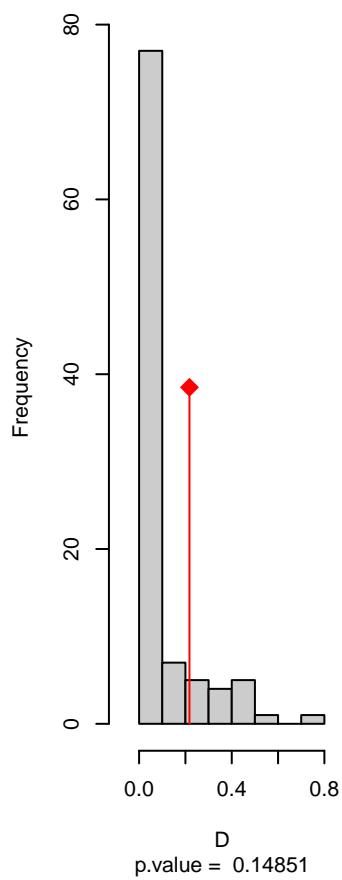
Equivalency



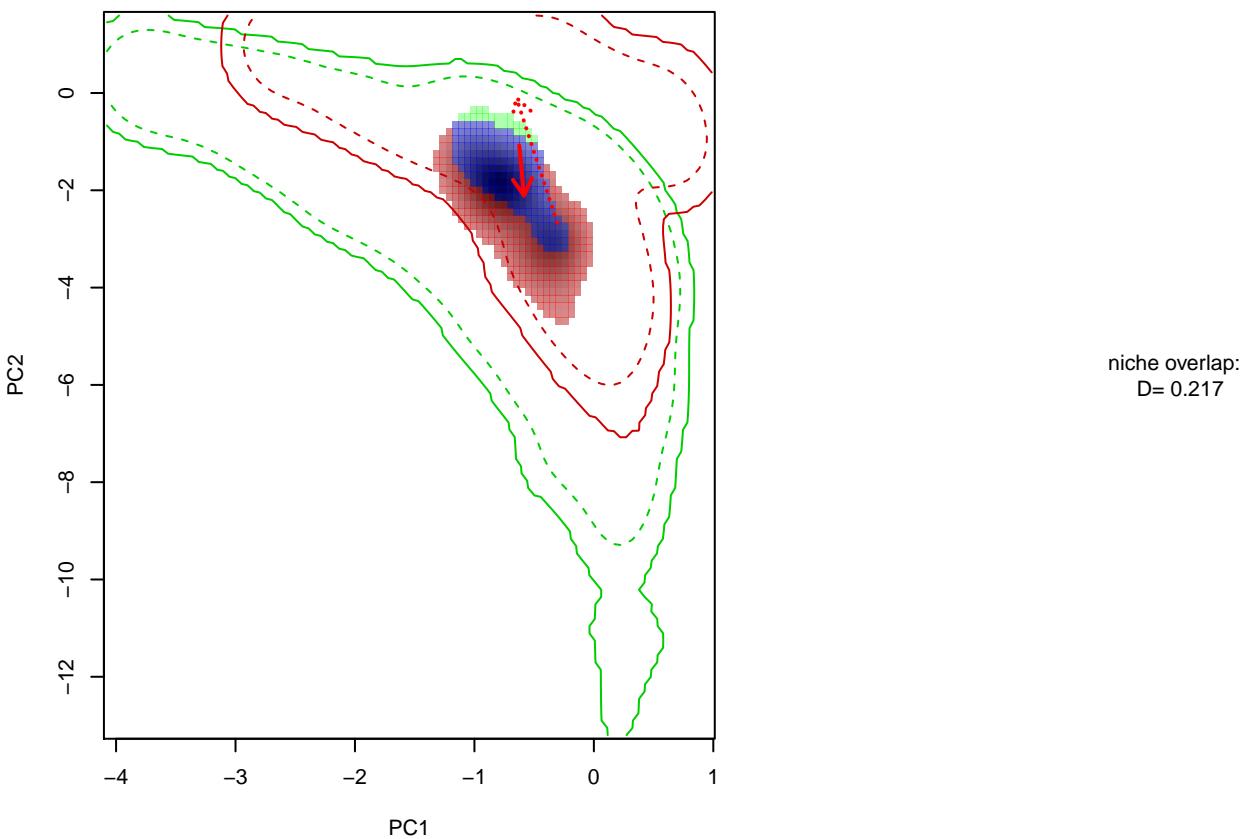
Similarity 2→1



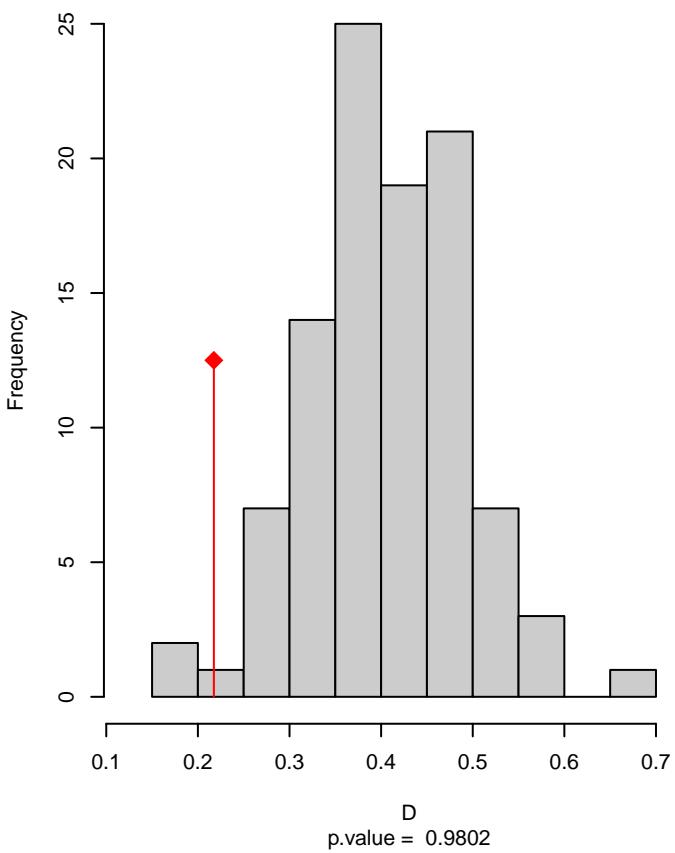
Similarity 1→2



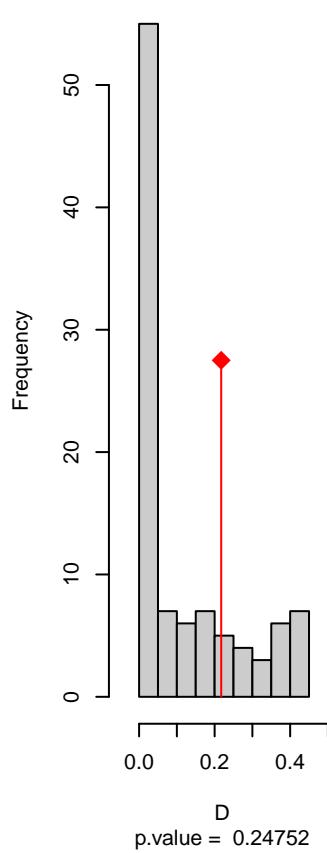
Cecropis_hyerythra seasonal overlap-hypo.br



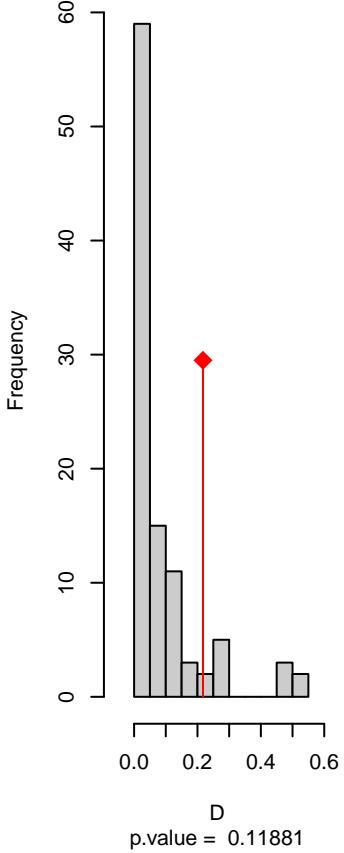
Equivalency



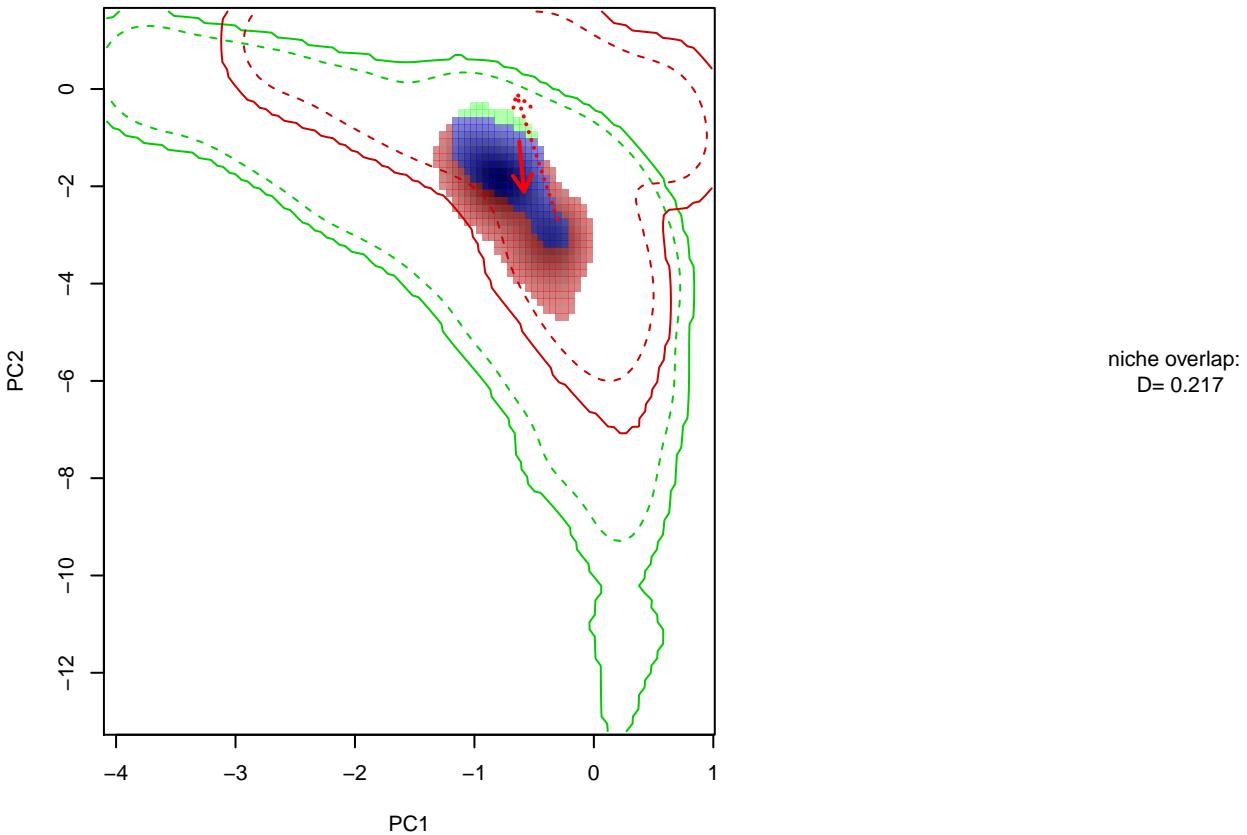
Similarity 2→1



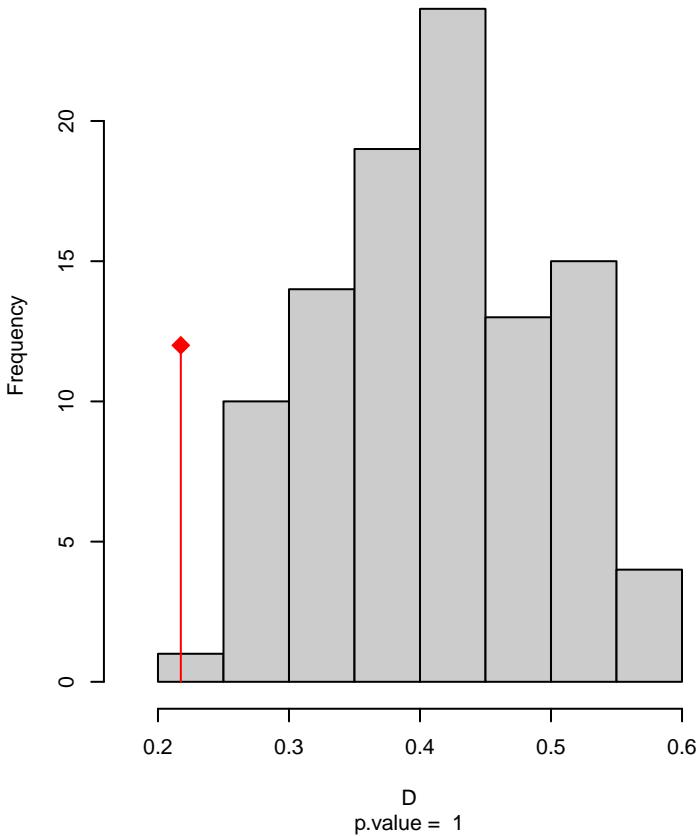
Similarity 1→2



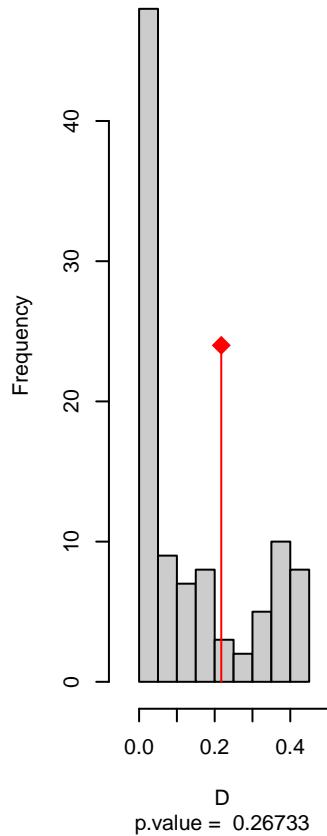
Cecropis_hyerythra seasonal overlap-hypo wi



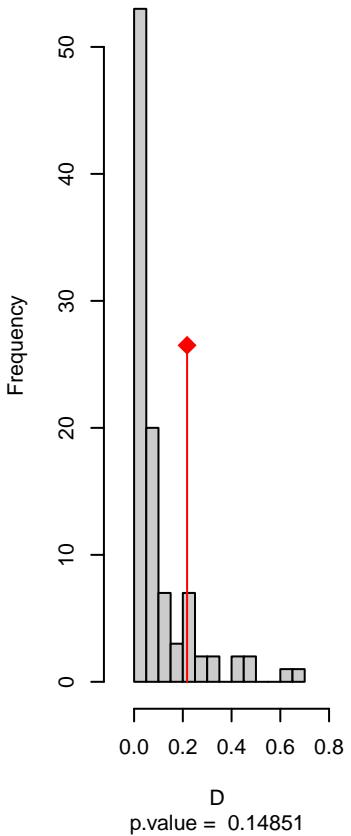
Equivalency



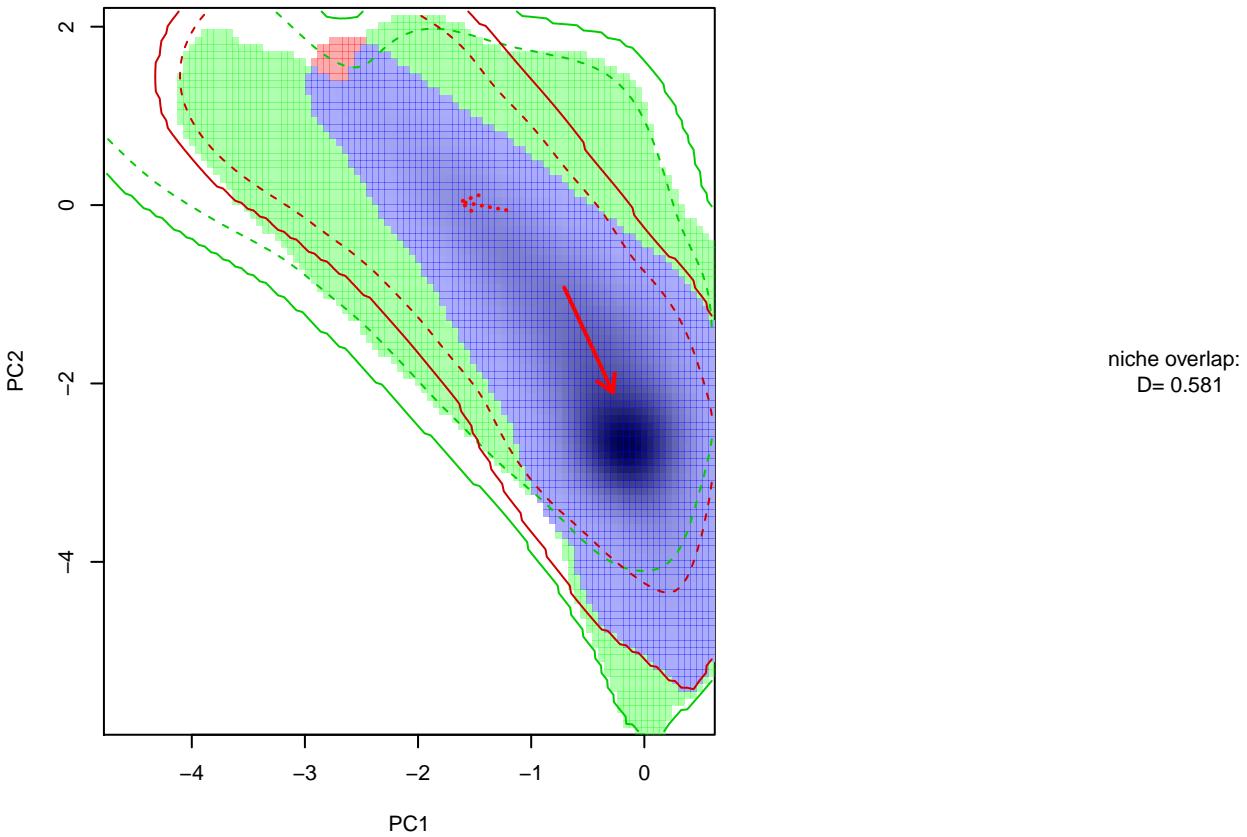
Similarity 2→1



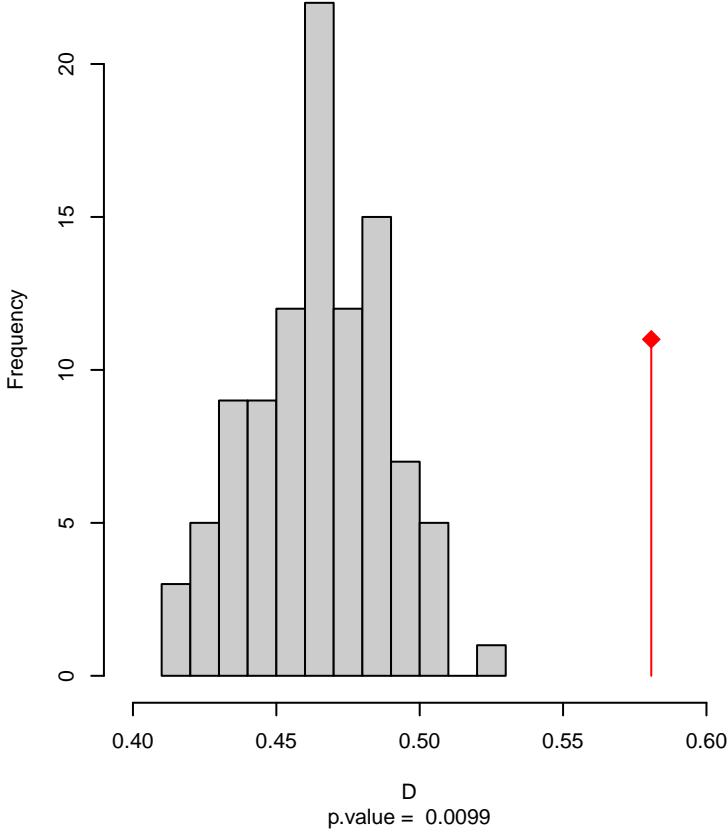
Similarity 1→2



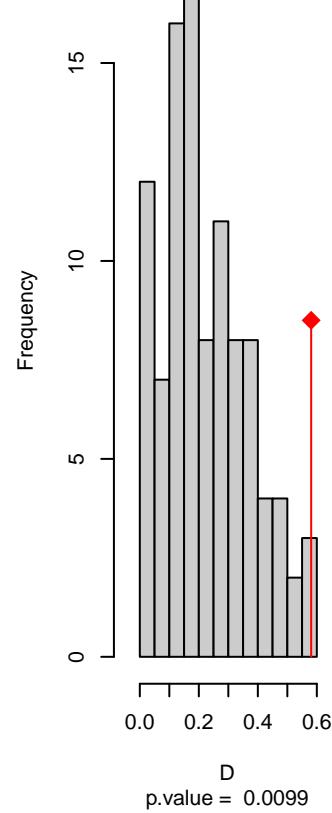
Cecropis_semirufa seasonal overlap



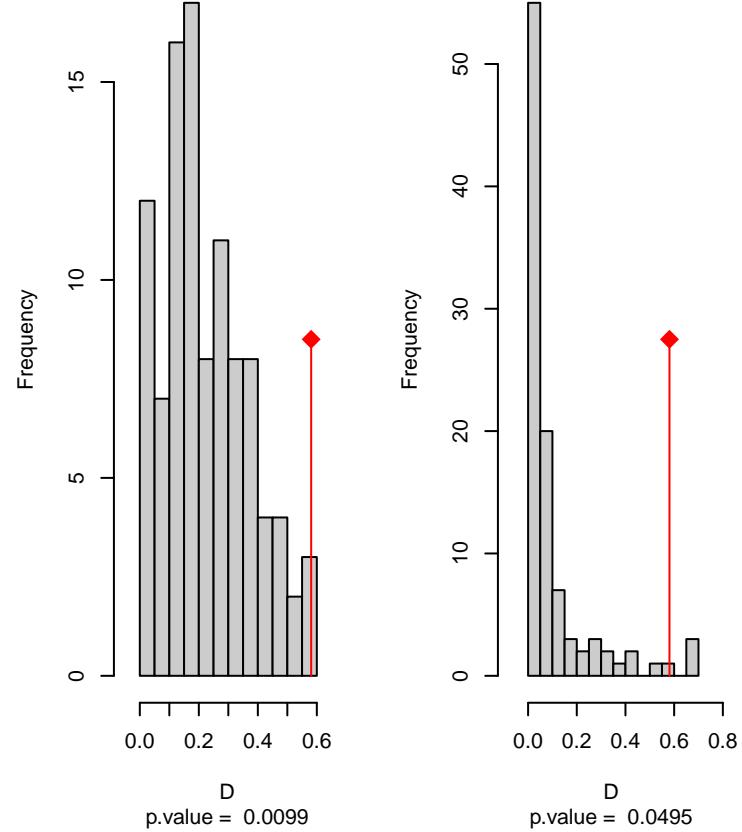
Equivalency



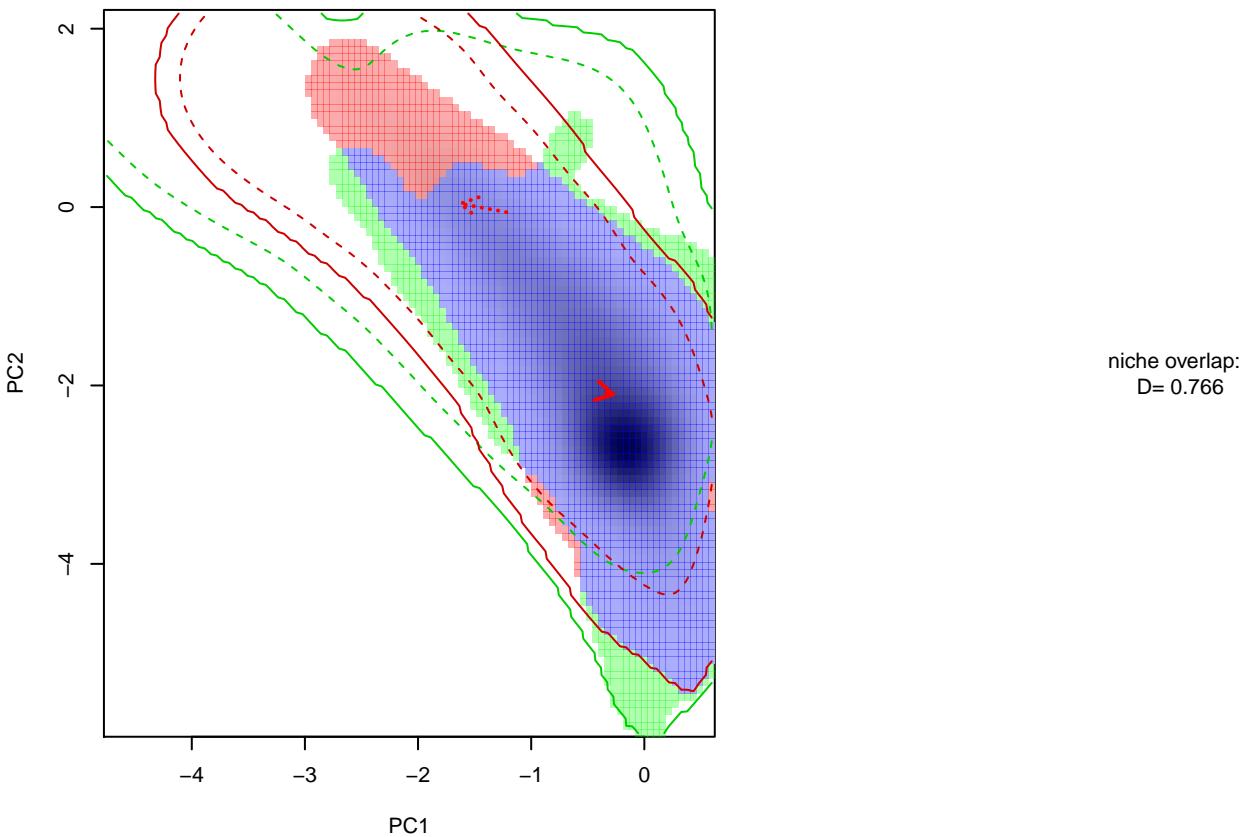
Similarity 2->1



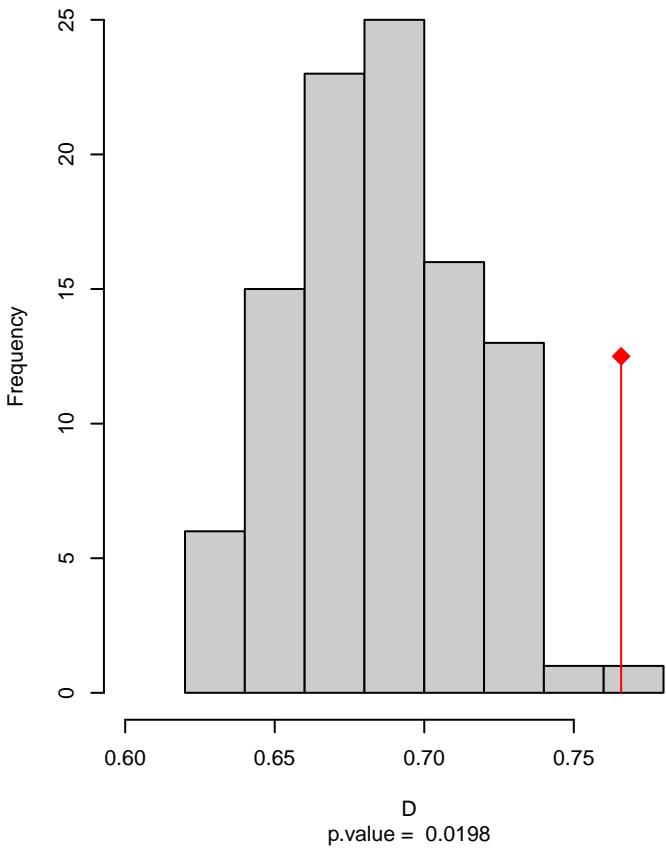
Similarity 1->2



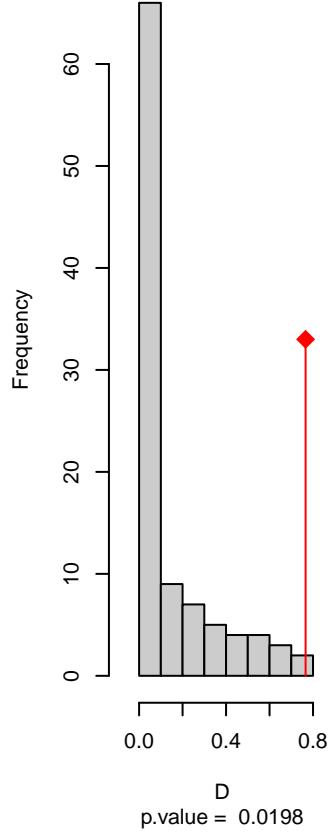
Cecropis_semirufa seasonal overlap-hypo.br



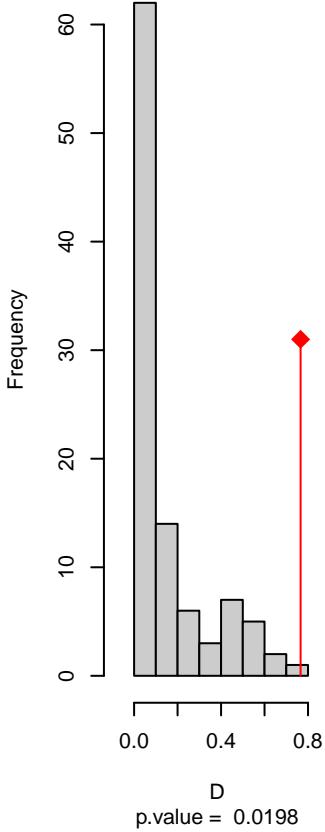
Equivalency



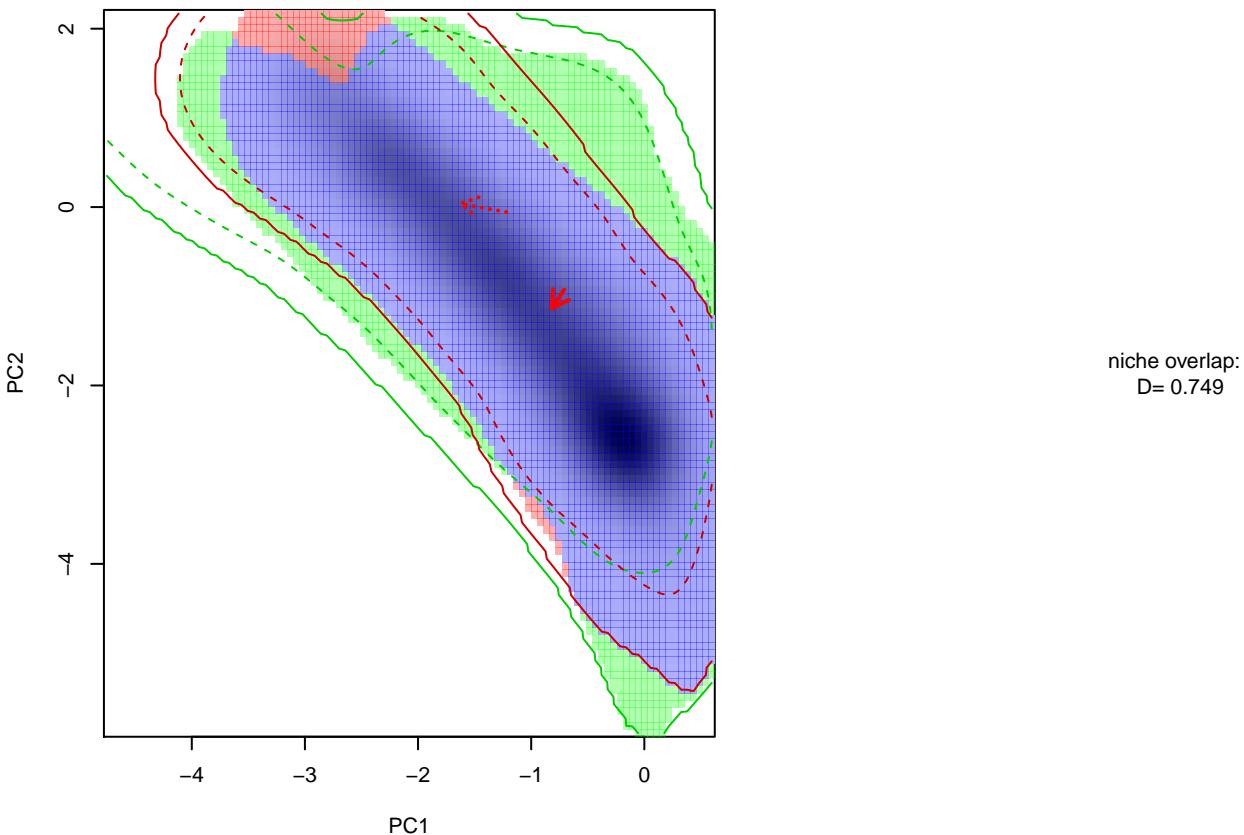
Similarity 2→1



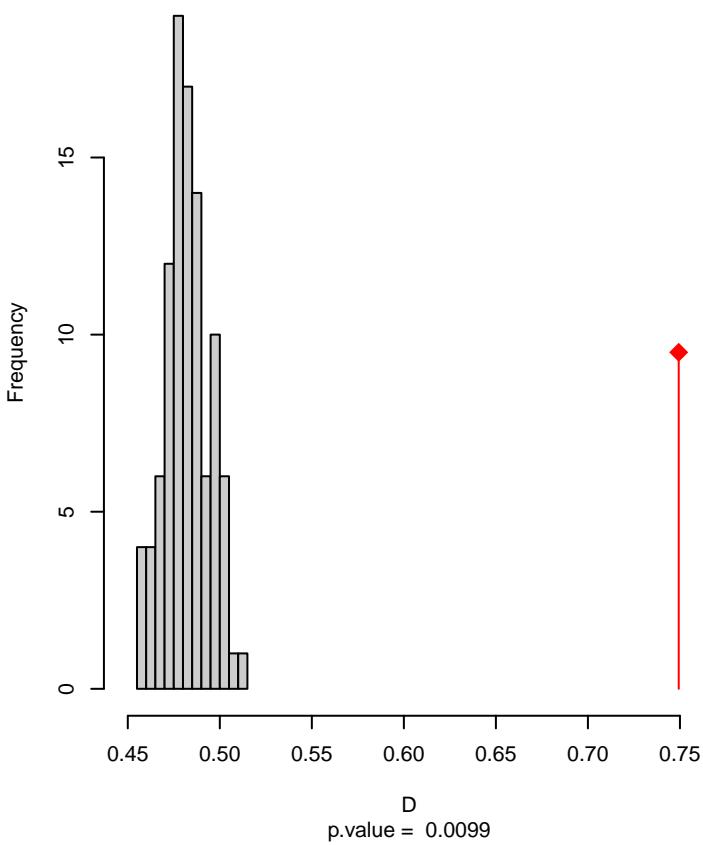
Similarity 1→2



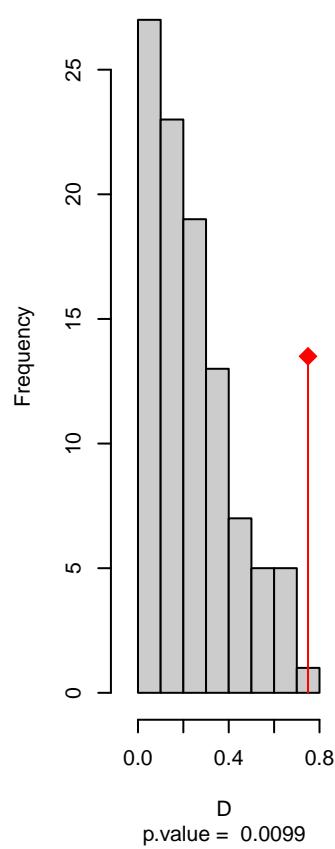
Cecropis_semirufa seasonal overlap-hypo wi



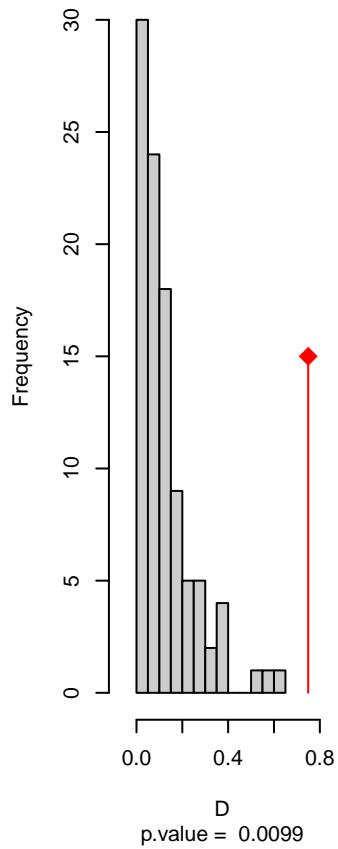
Equivalency



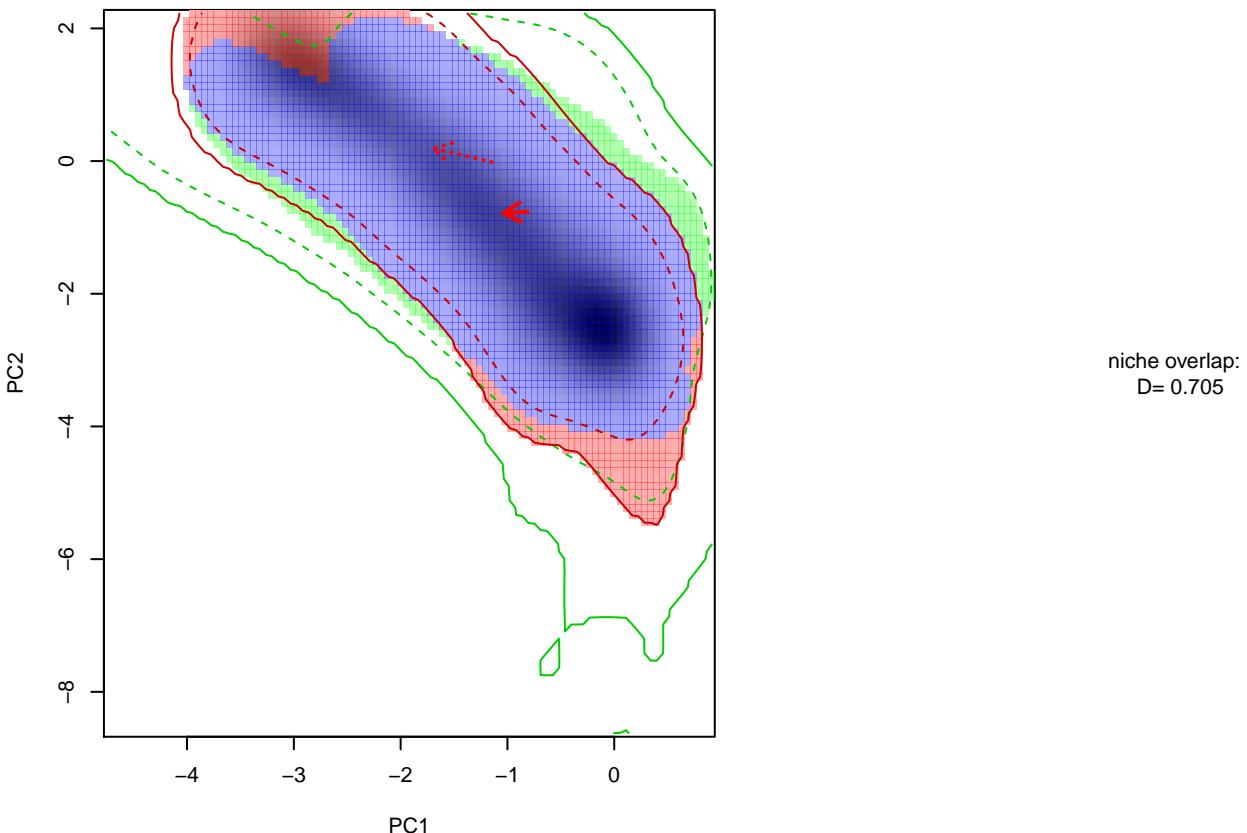
Similarity 2→1



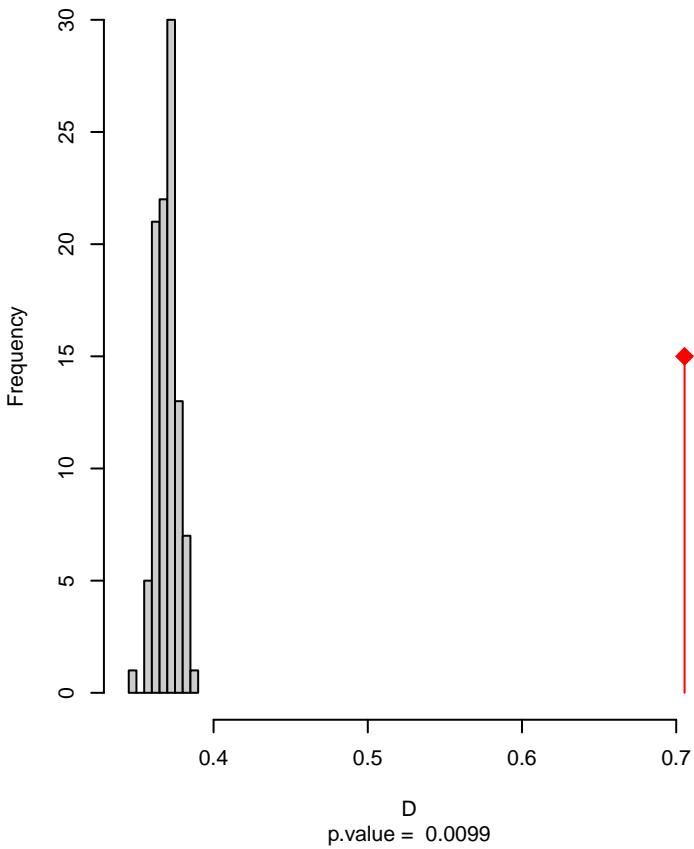
Similarity 1→2



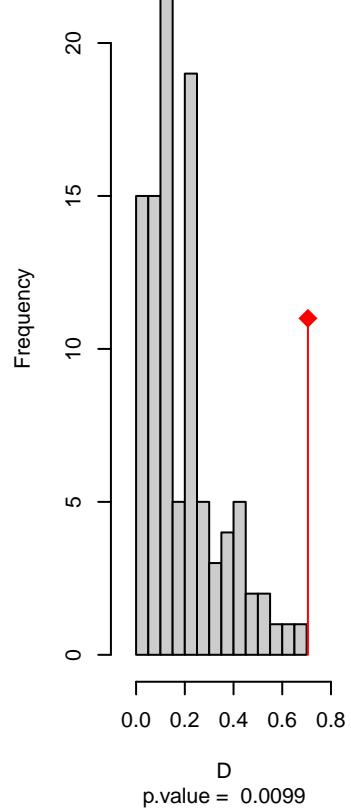
Cecropis_senegalensis seasonal overlap



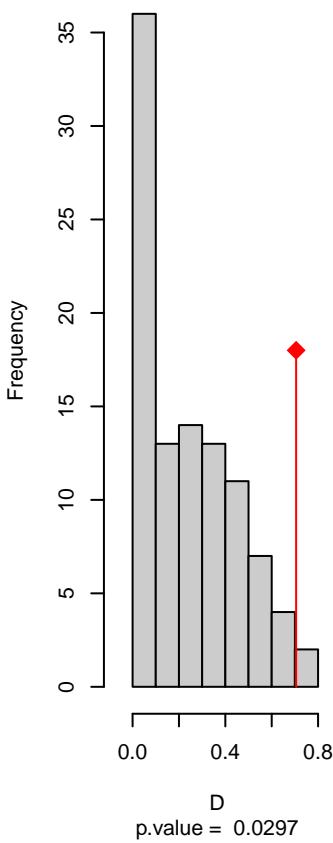
Equivalency



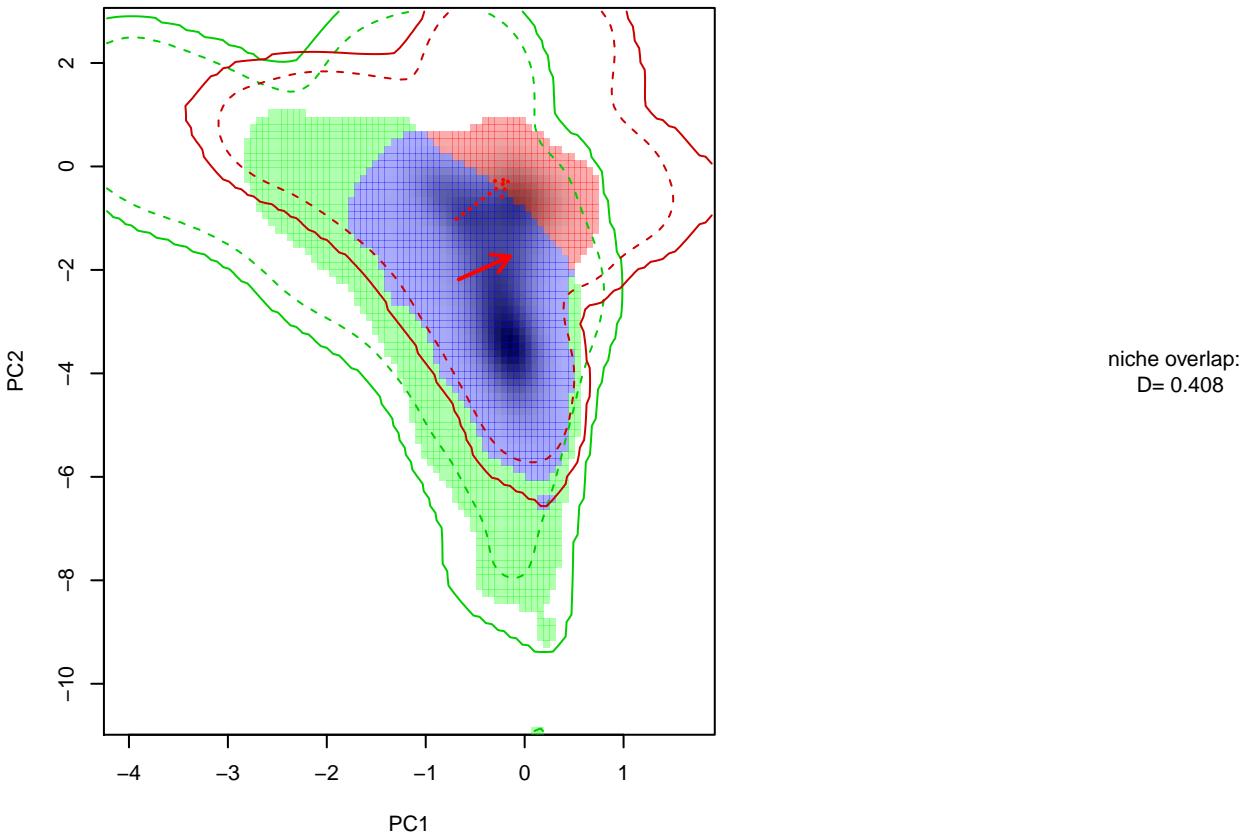
Similarity 2→1



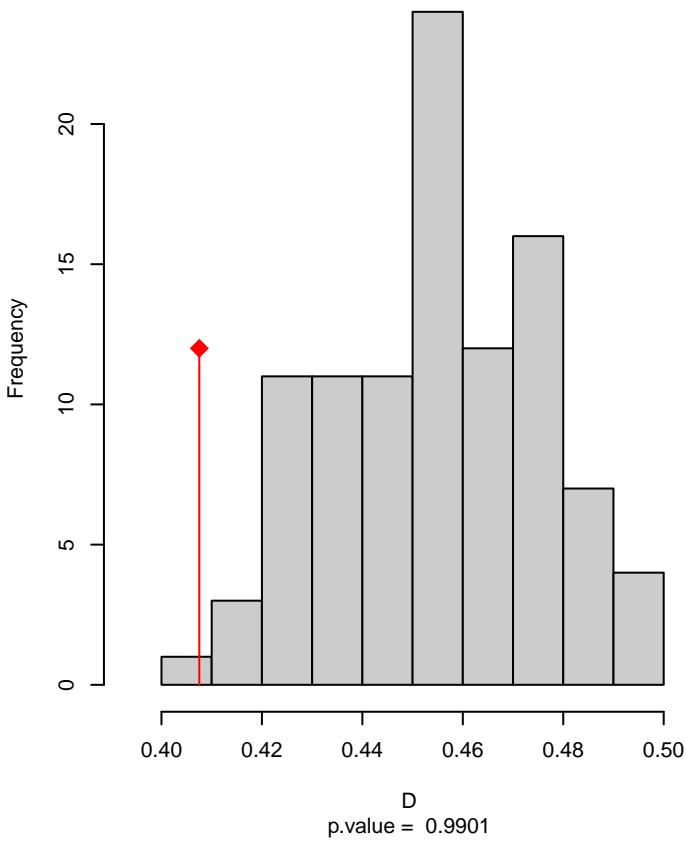
Similarity 1→2



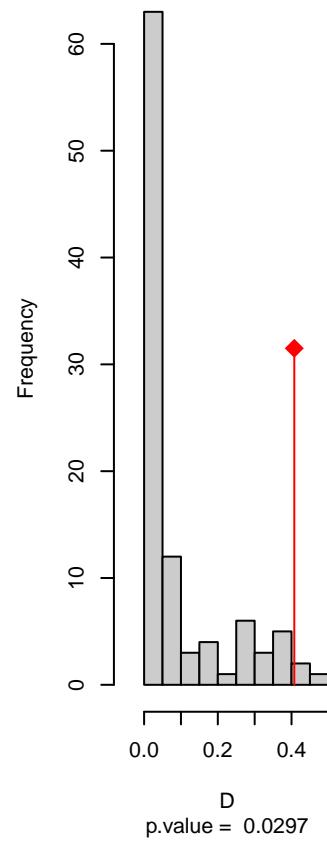
Cecropis_striolata seasonal overlap



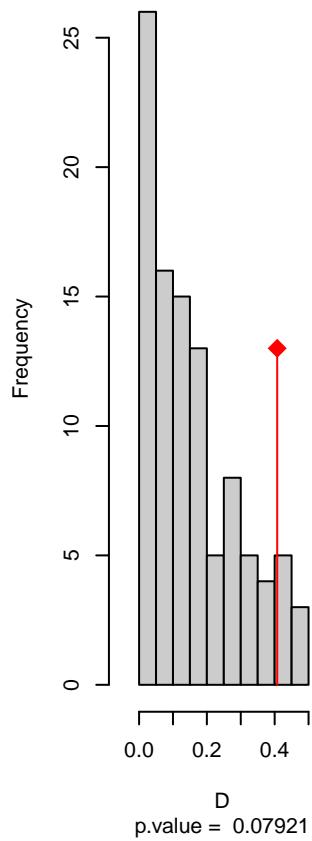
Equivalency



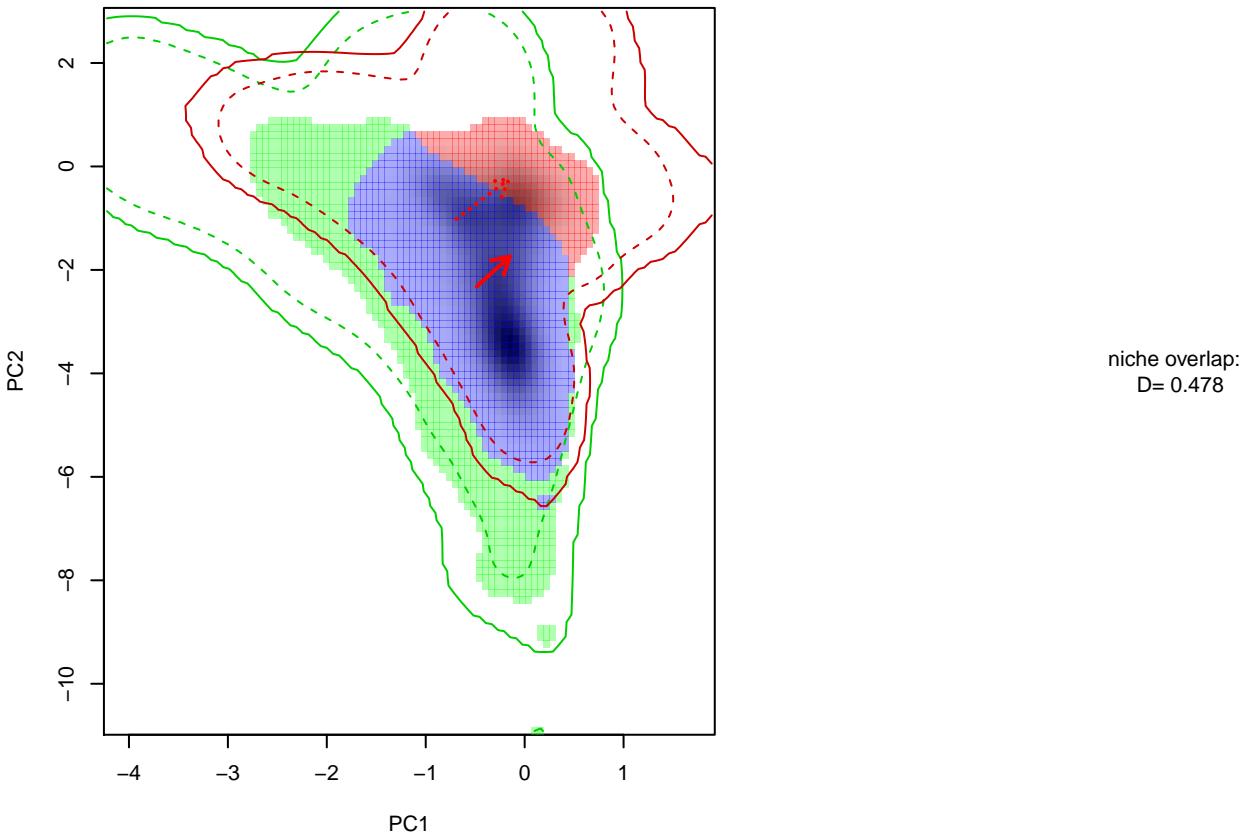
Similarity 2→1



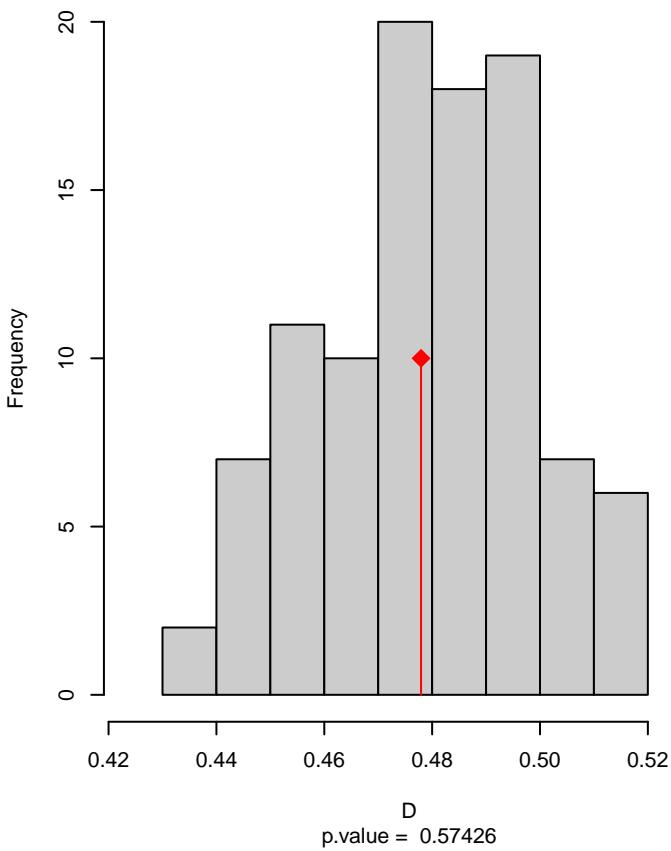
Similarity 1→2



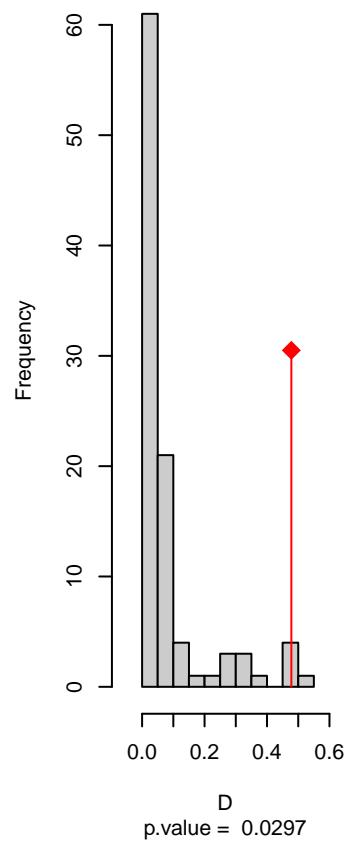
Cecropis_striolata seasonal overlap–hypo.br



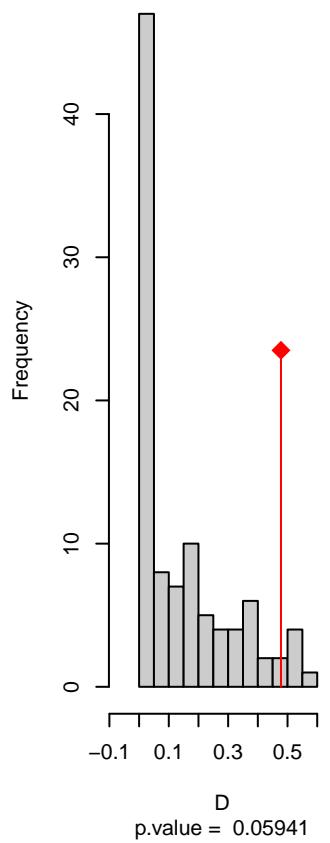
Equivalency



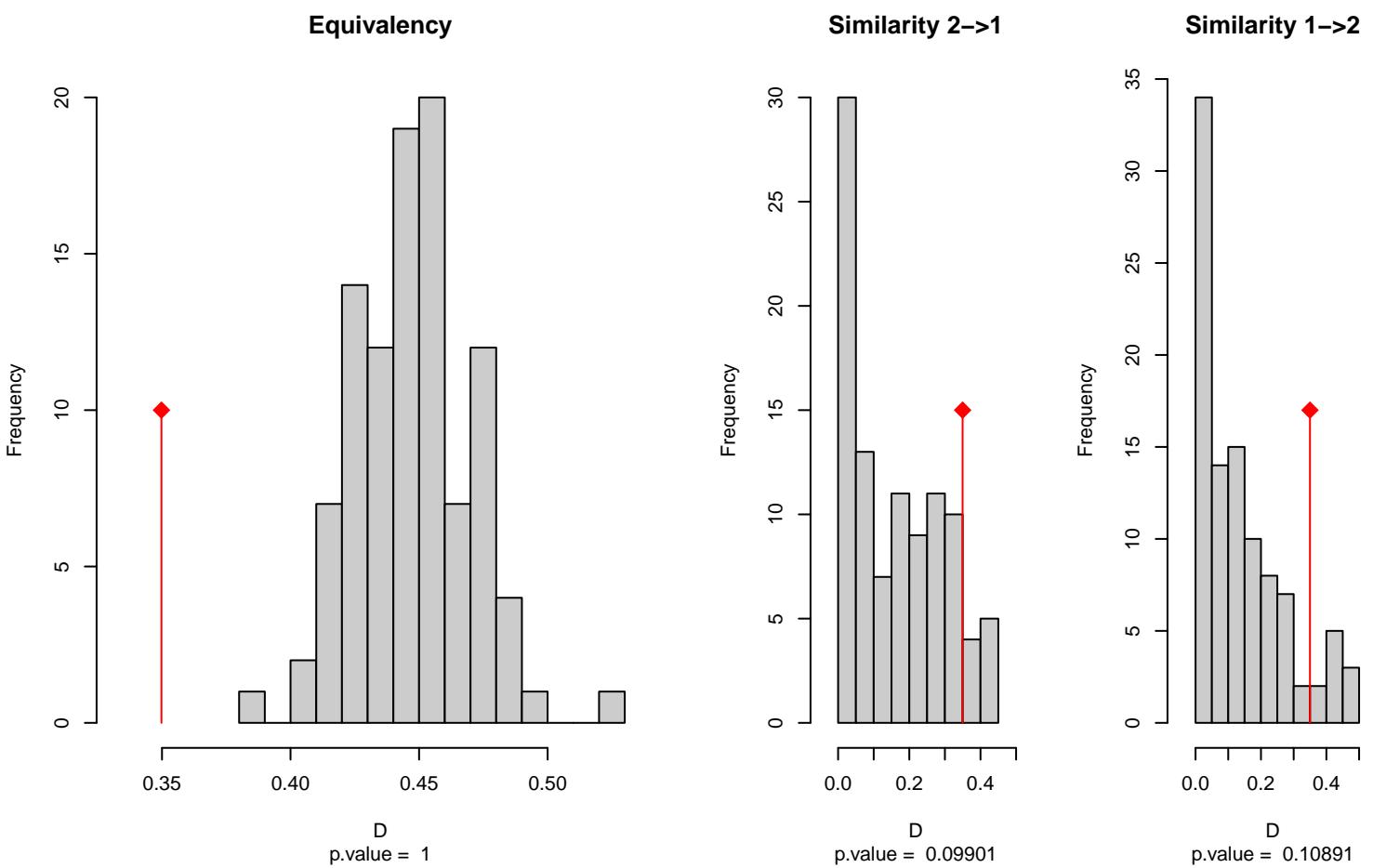
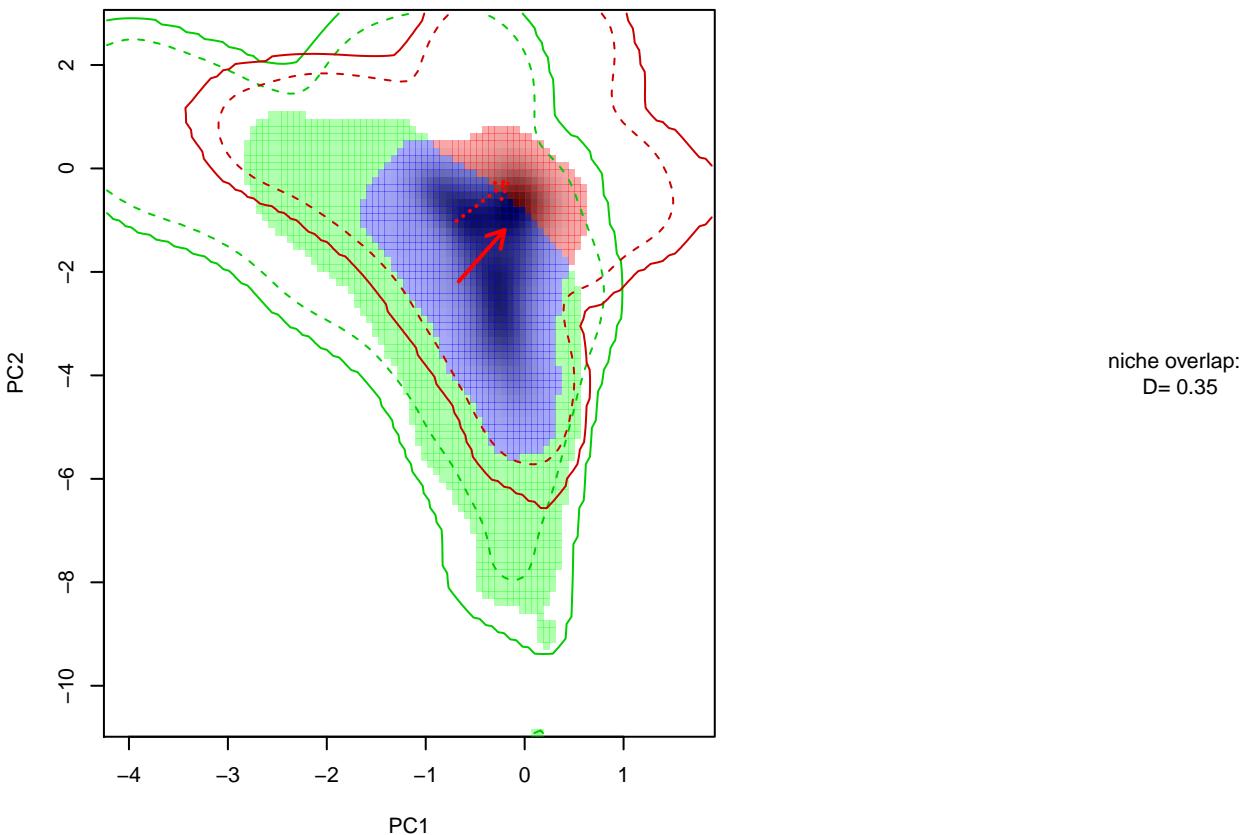
Similarity 2→1



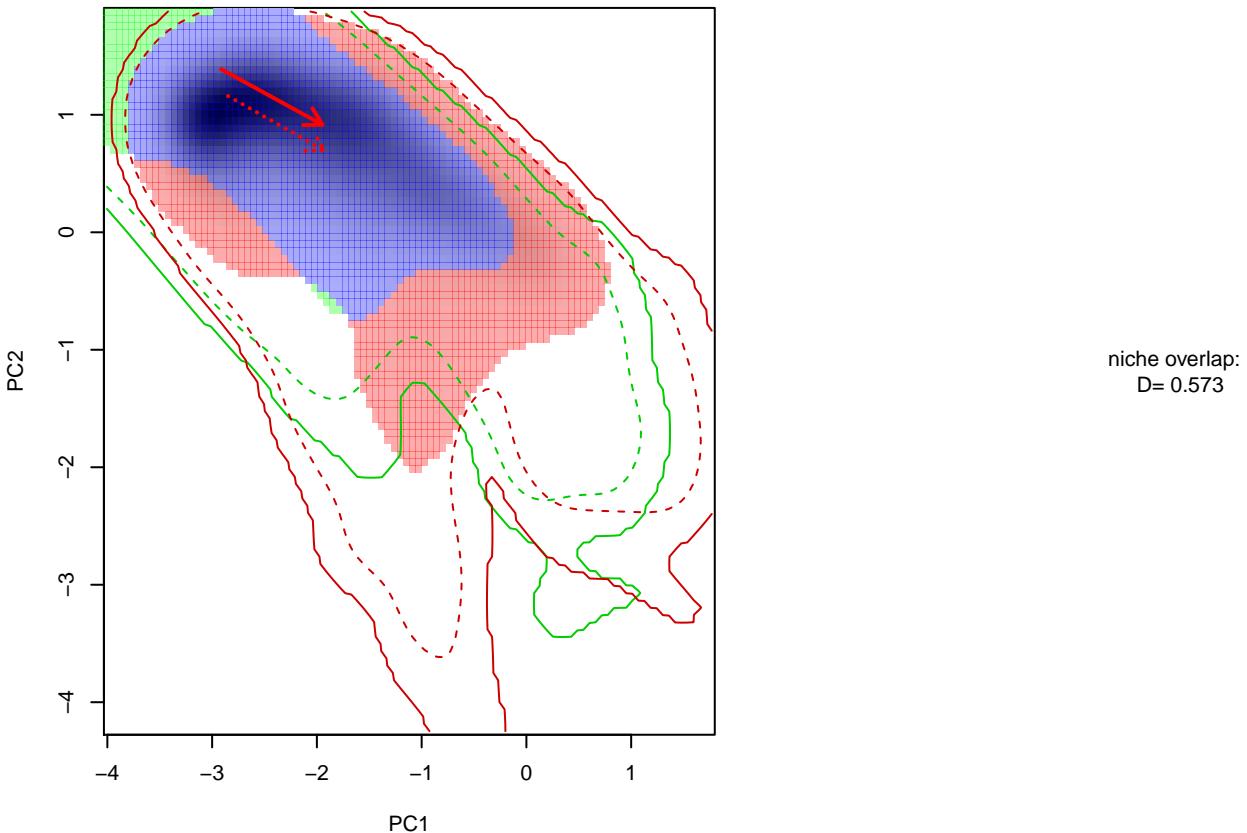
Similarity 1→2



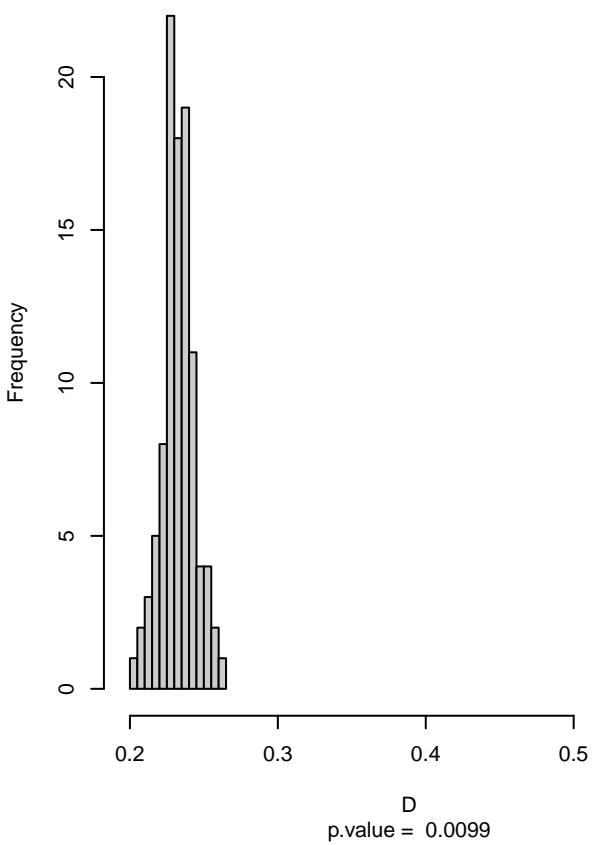
Cecropis_striolata seasonal overlap–hypo wi



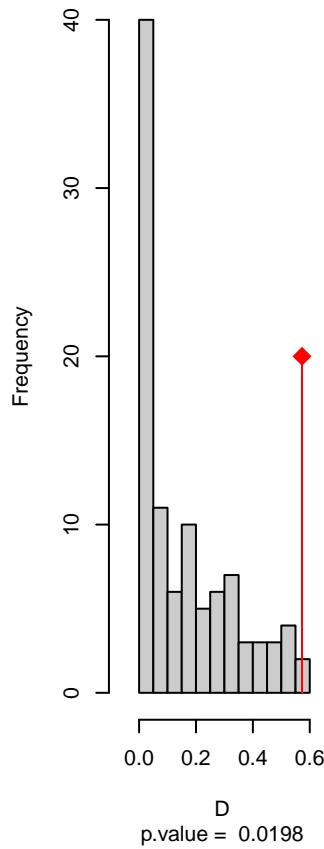
Cheramoeca_leucosterna seasonal overlap



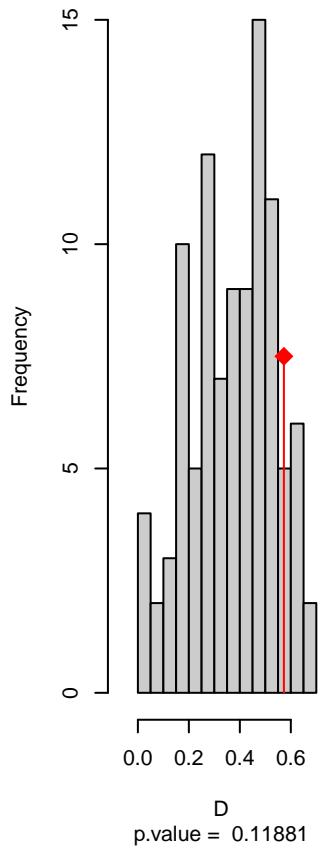
Equivalency



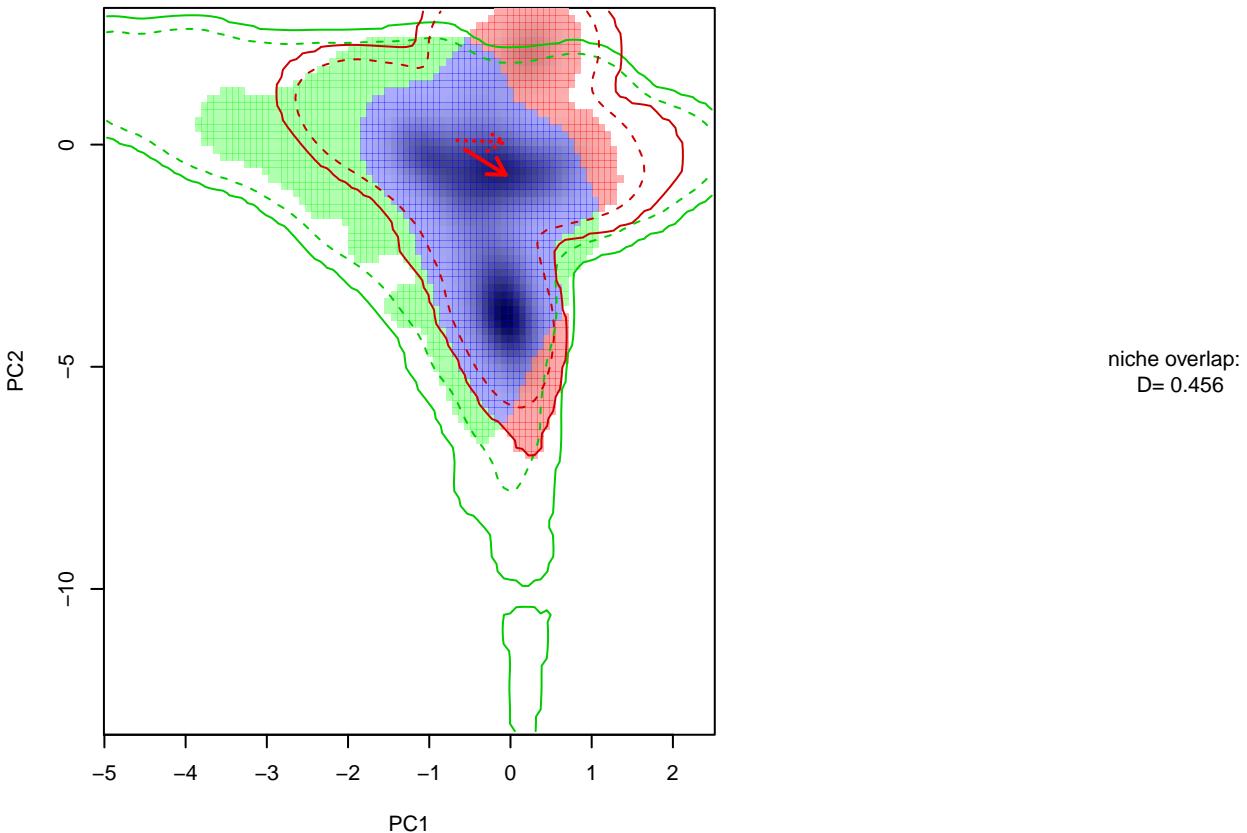
Similarity 2→1



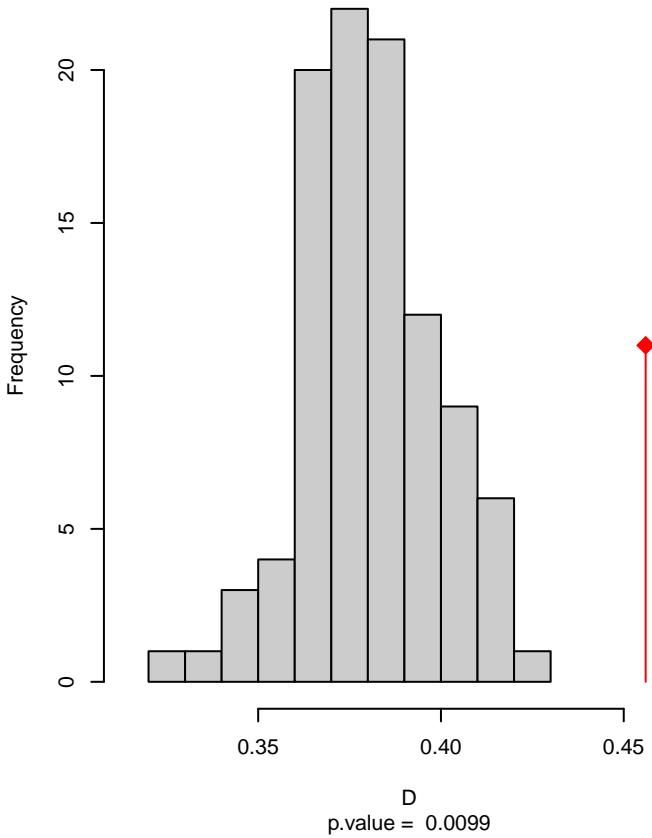
Similarity 1→2



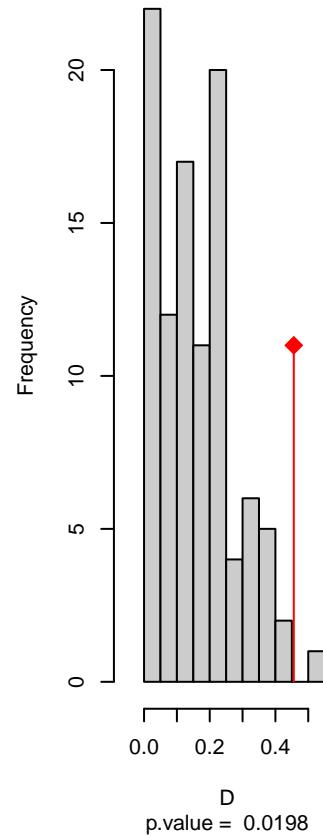
Delichon_dasypus seasonal overlap



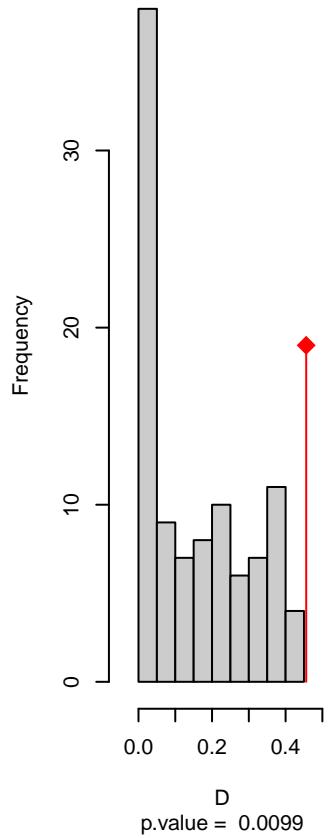
Equivalency



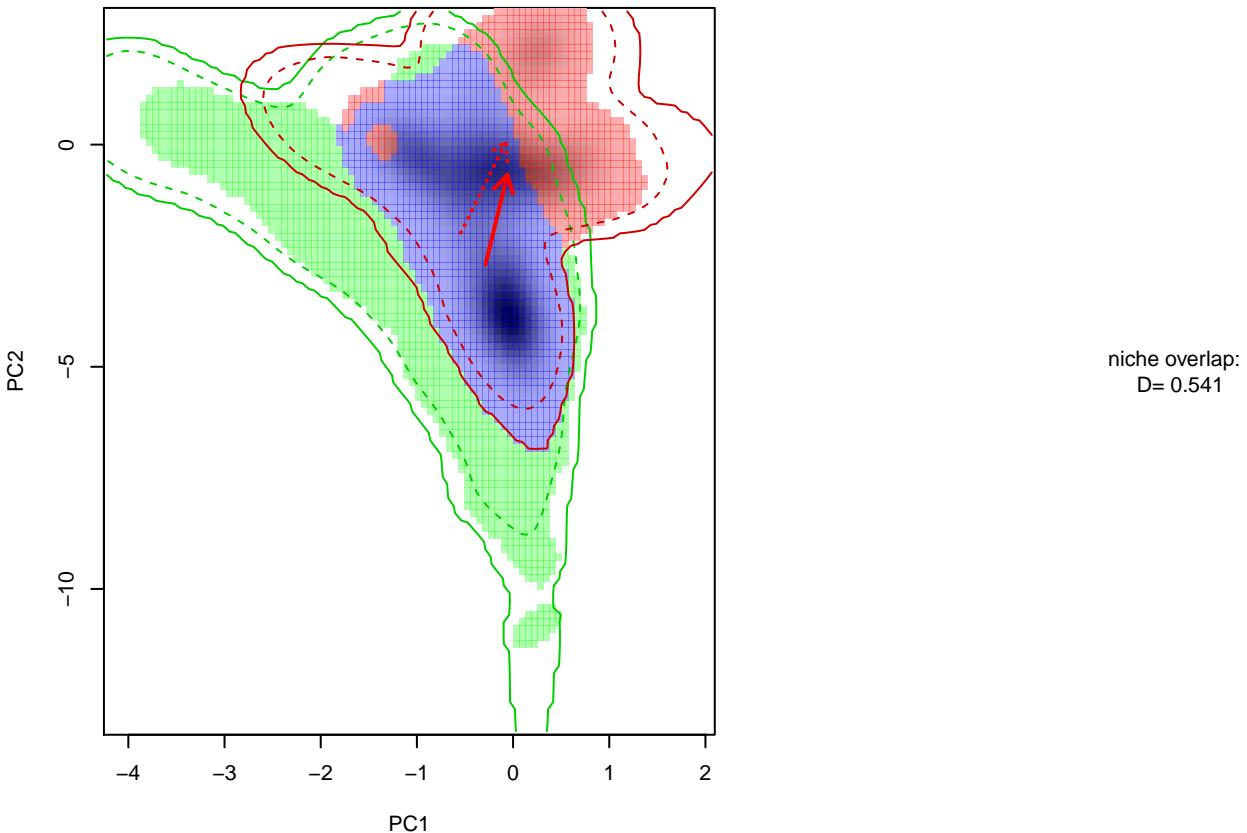
Similarity 2→1



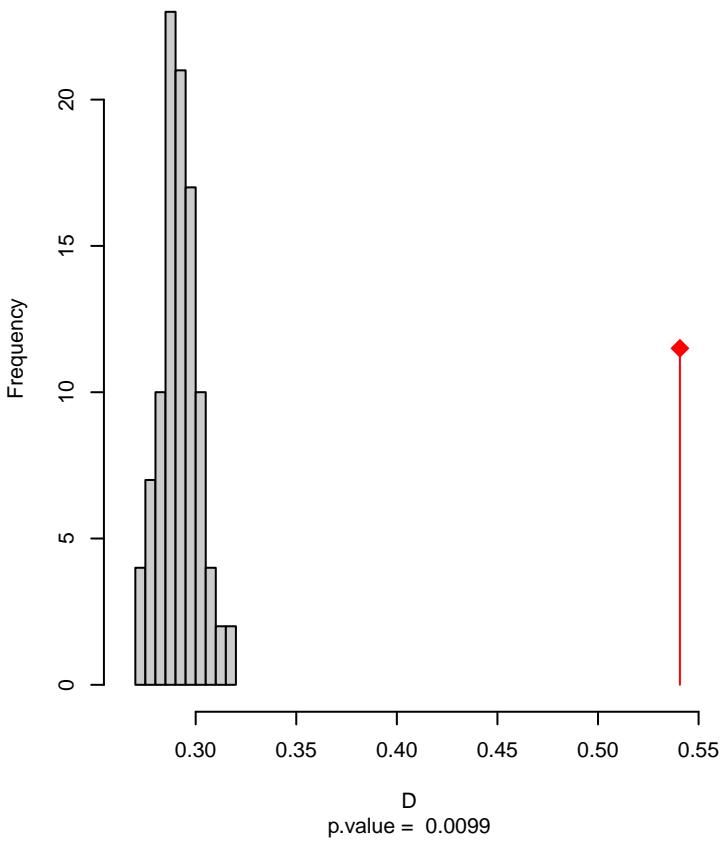
Similarity 1→2



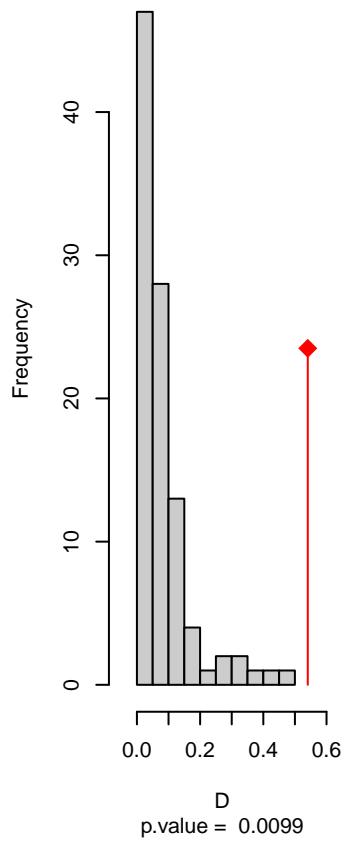
Delichon_dasypus seasonal overlap-hypo.br



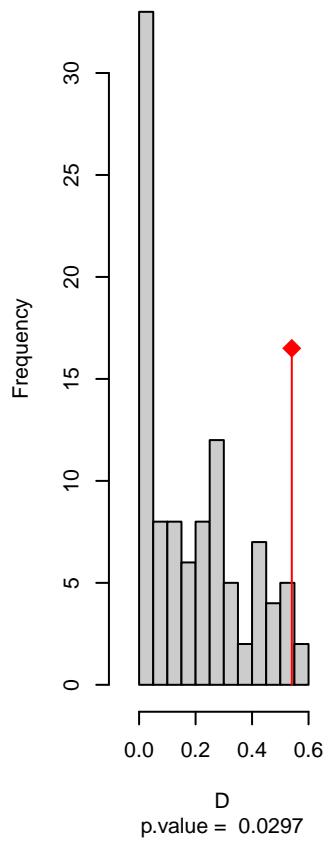
Equivalency



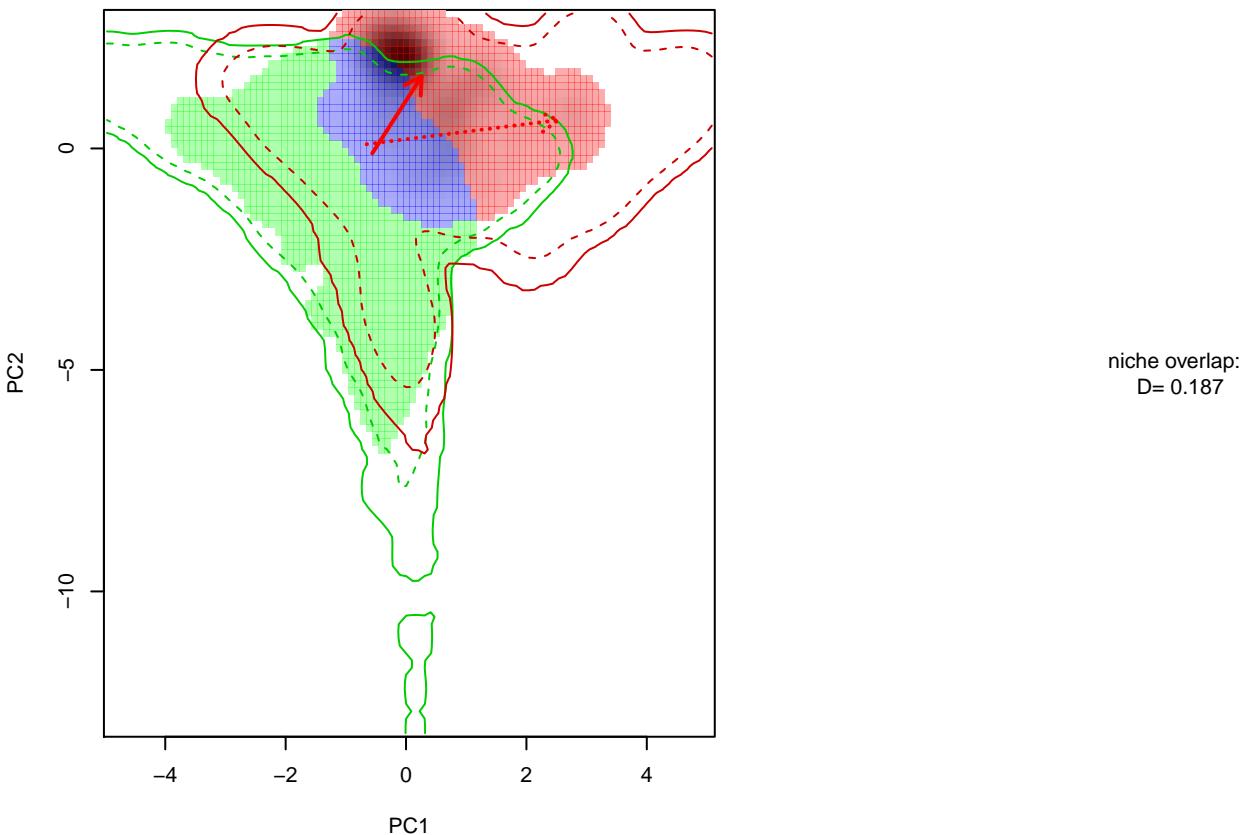
Similarity 2→1



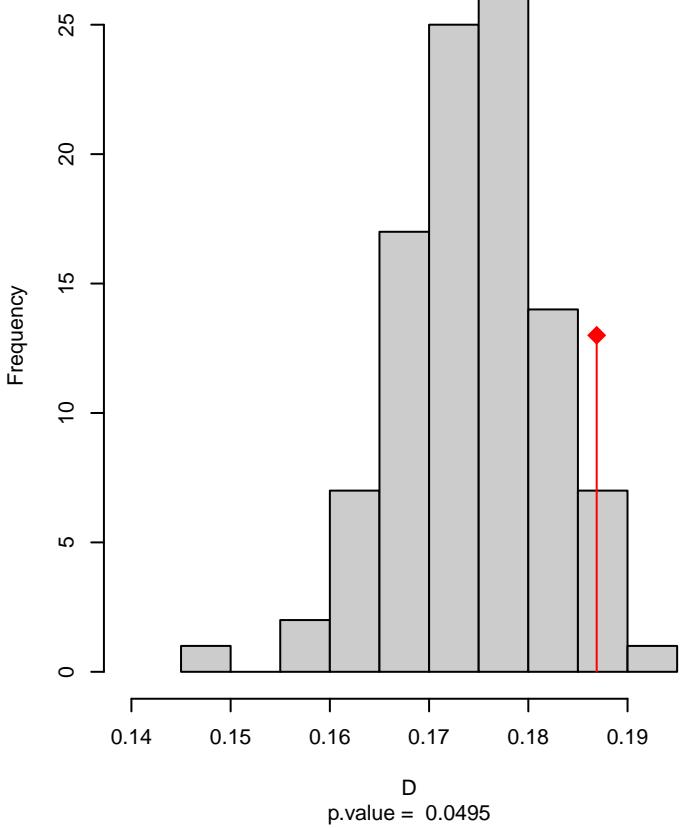
Similarity 1→2



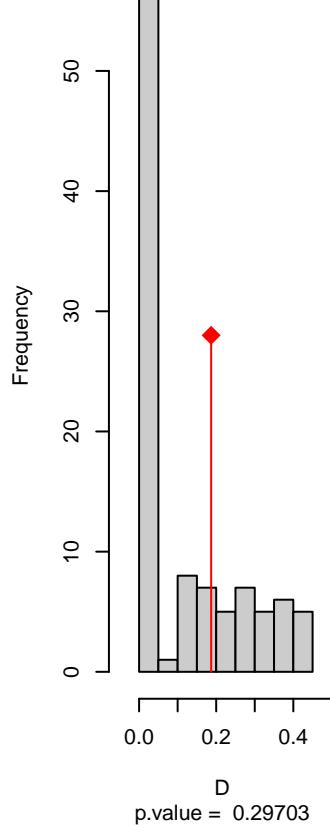
Delichon_dasypus seasonal overlap–hypo wi



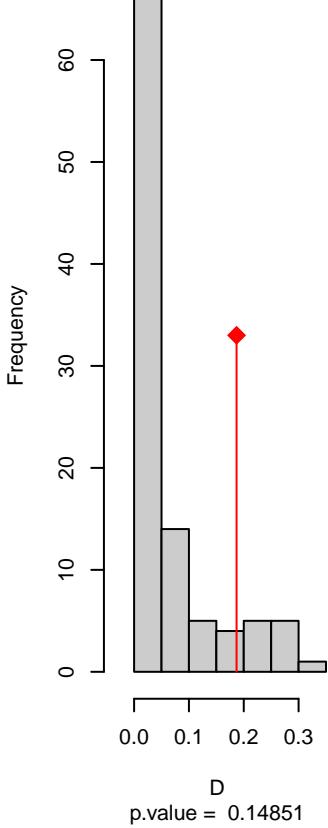
Equivalency



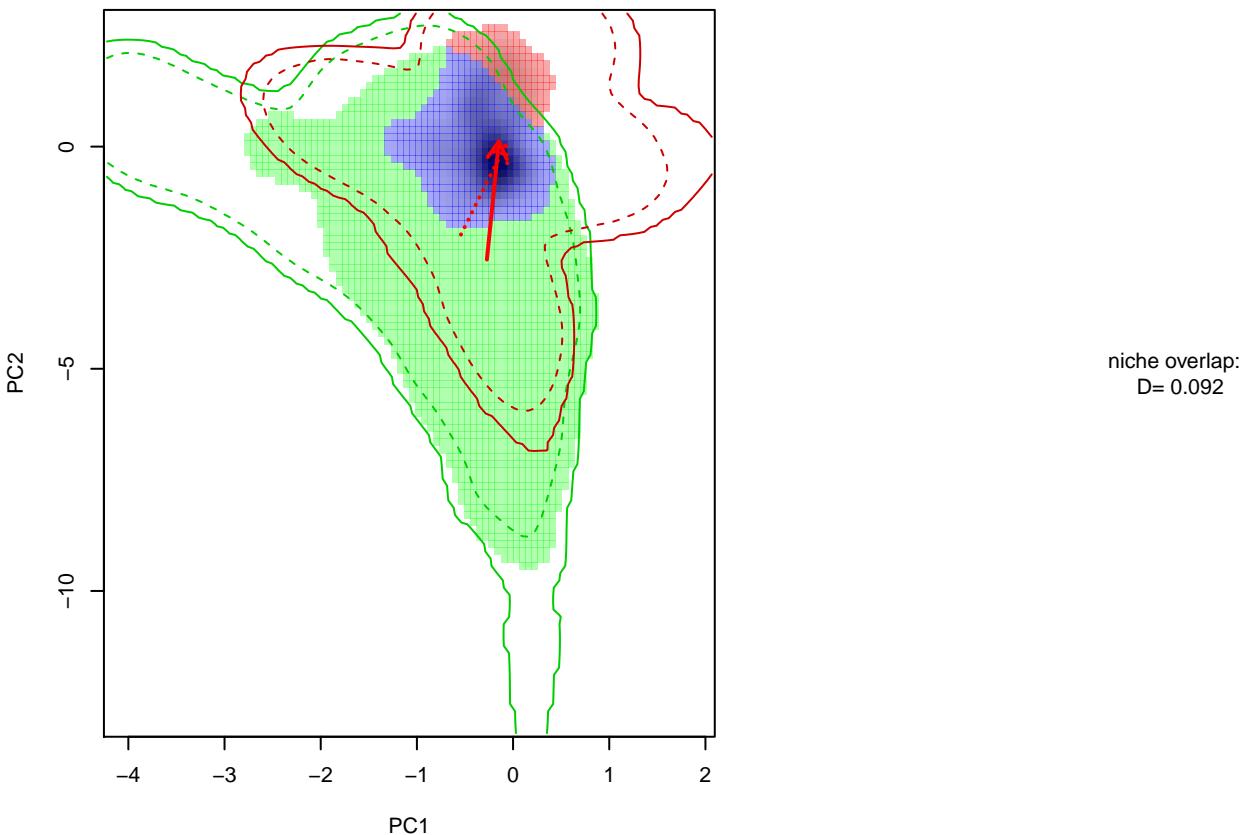
Similarity 2→1



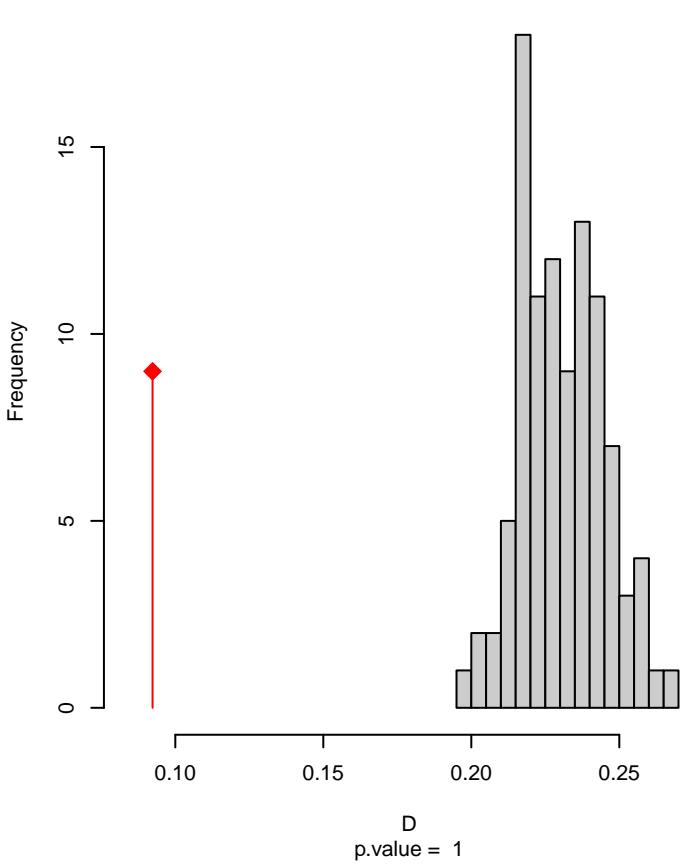
Similarity 1→2



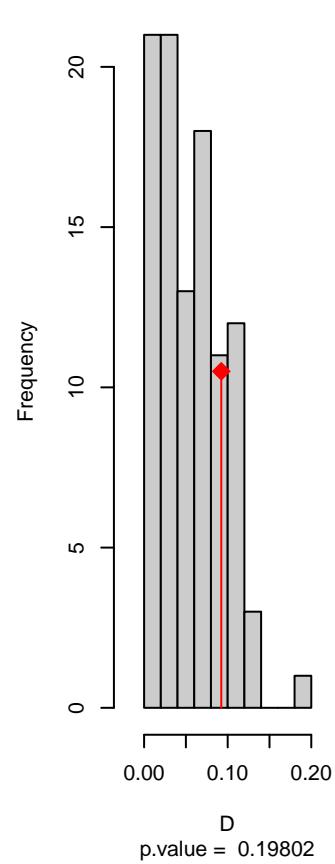
Delichon_nipalense seasonal overlap



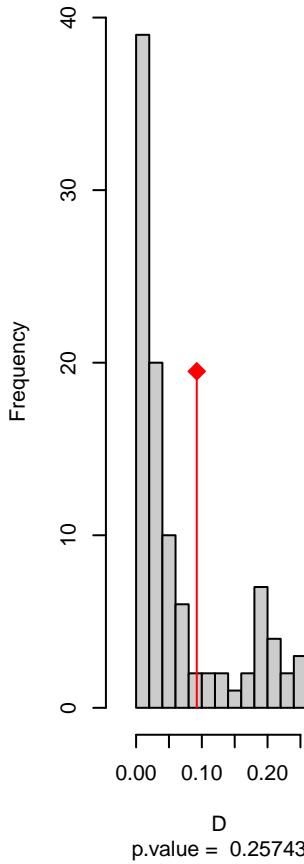
Equivalency



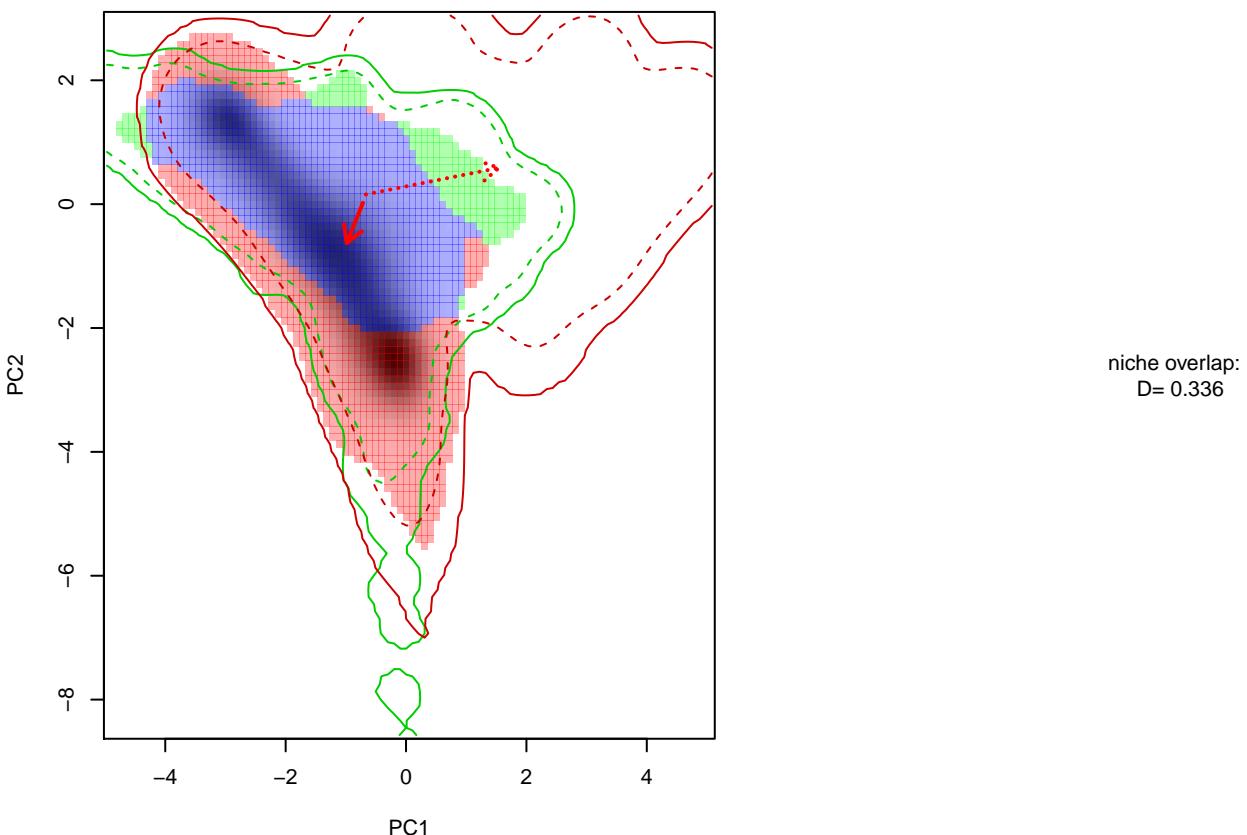
Similarity 2→1



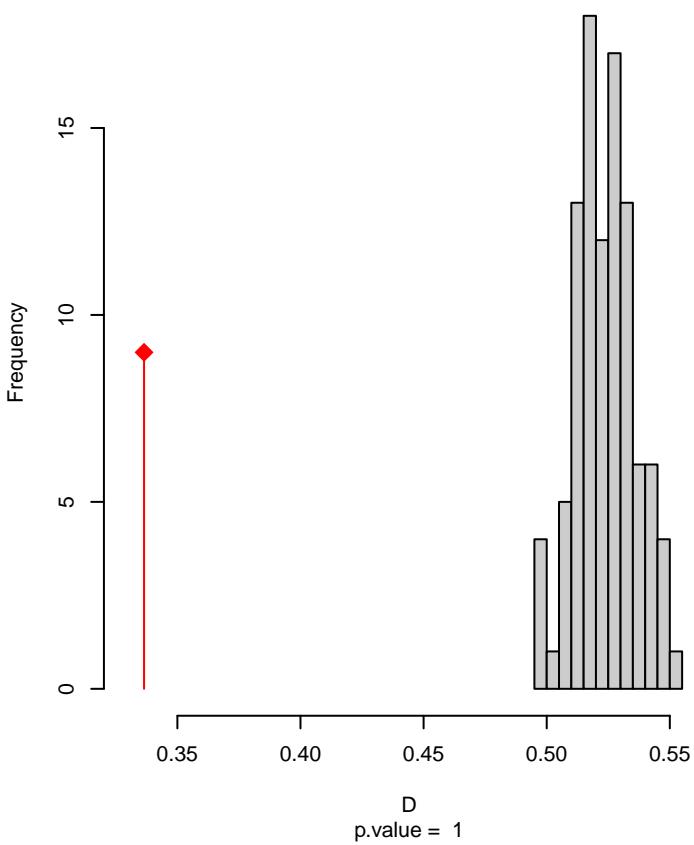
Similarity 1→2



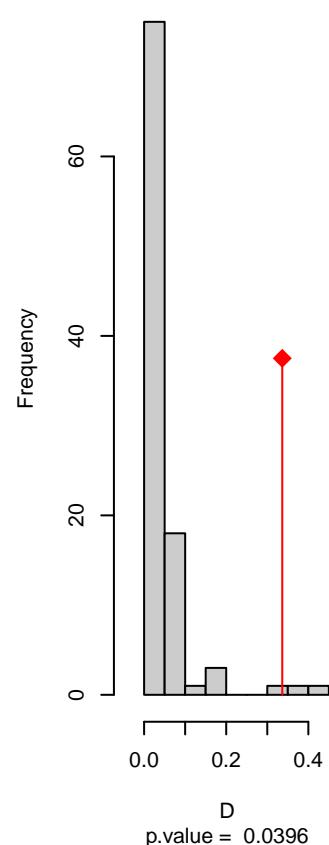
Delichon_urbicum seasonal overlap



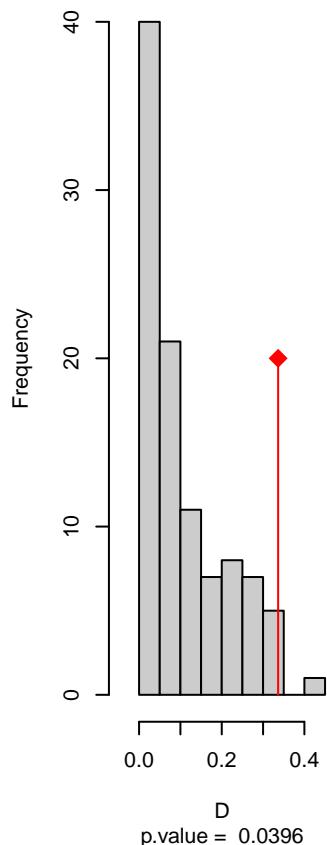
Equivalency



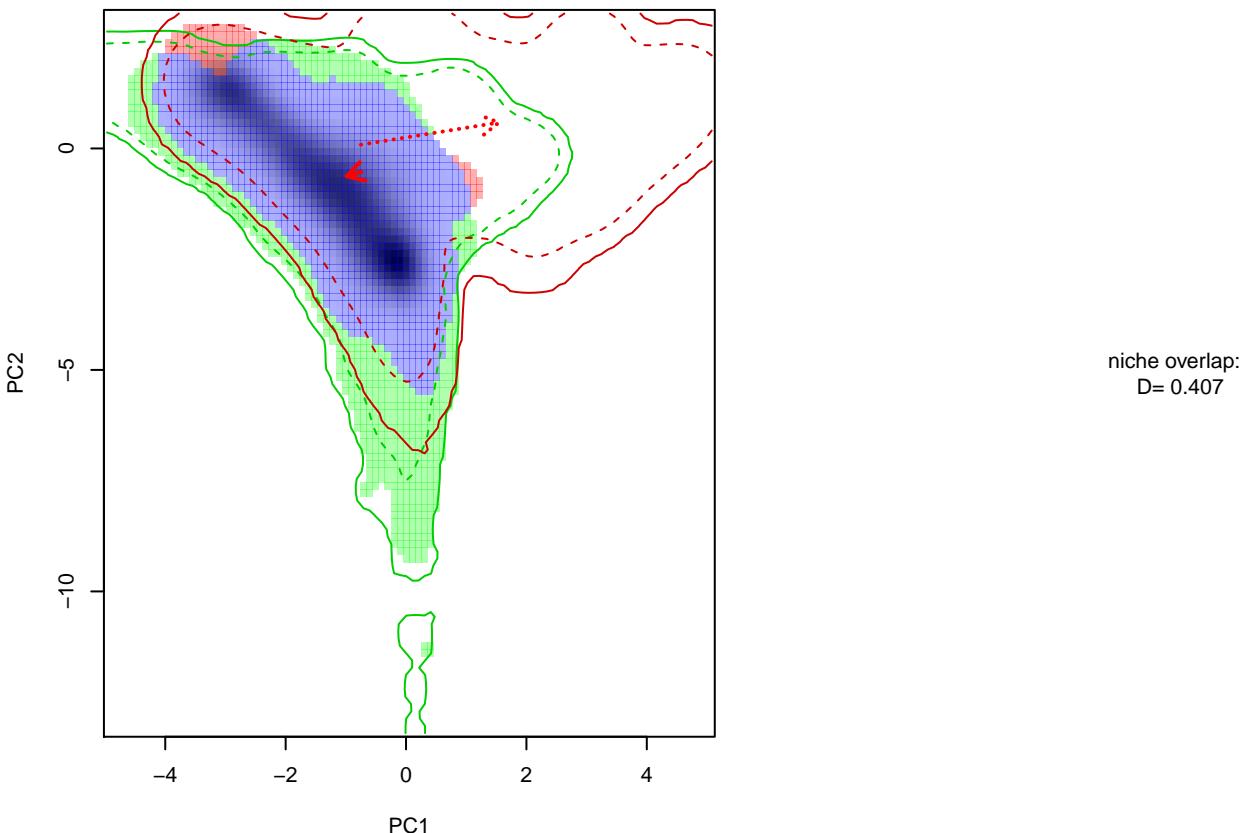
Similarity 2→1



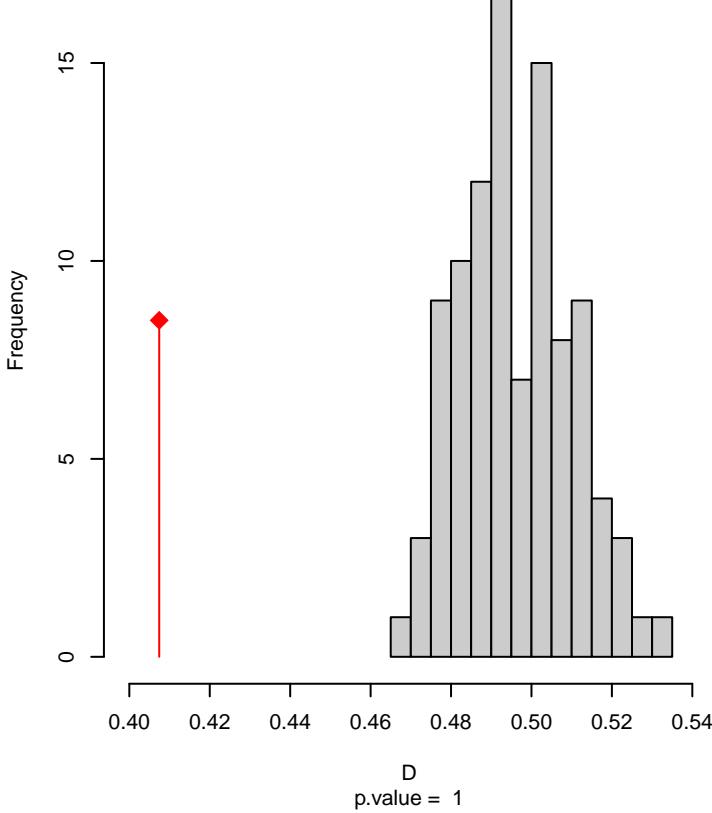
Similarity 1→2



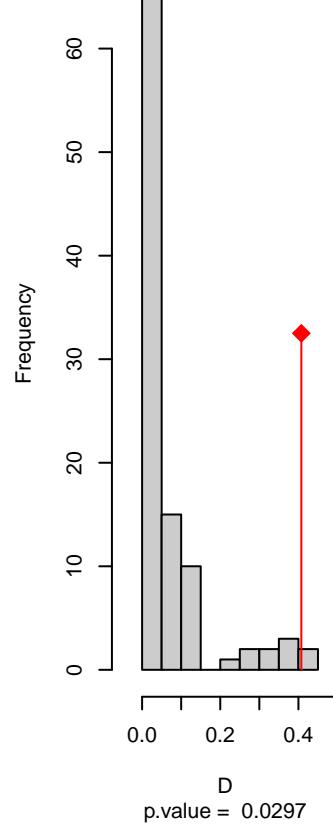
Delichon urbicum seasonal overlap–hypo.br



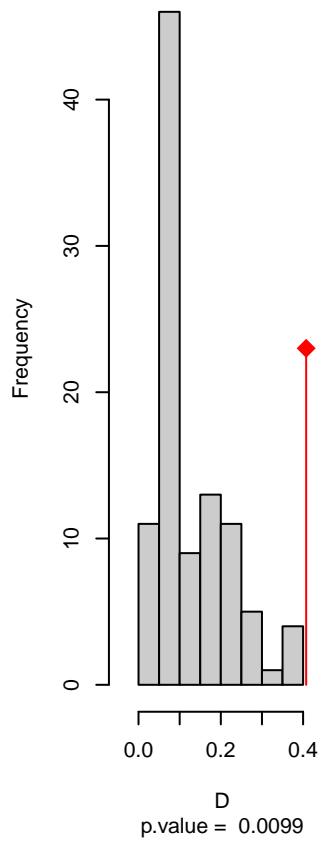
Equivalency



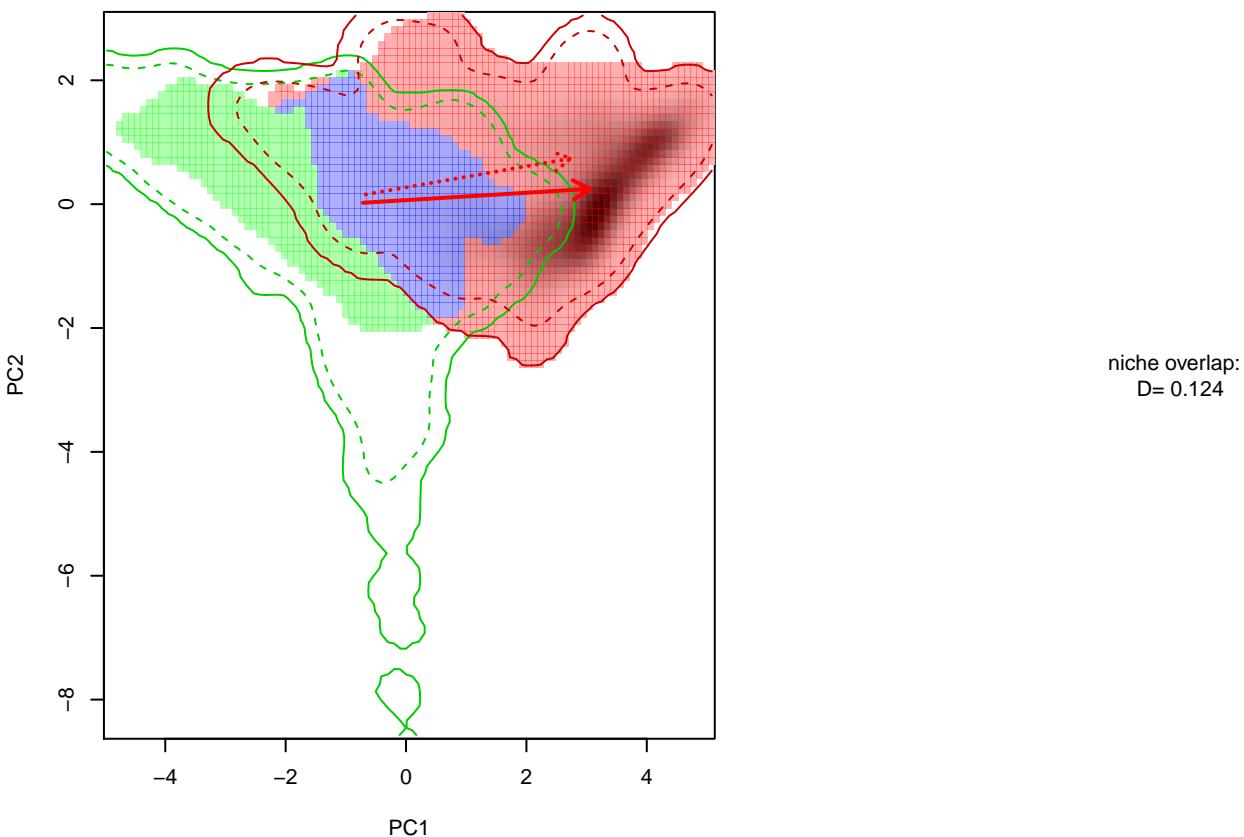
Similarity 2→1



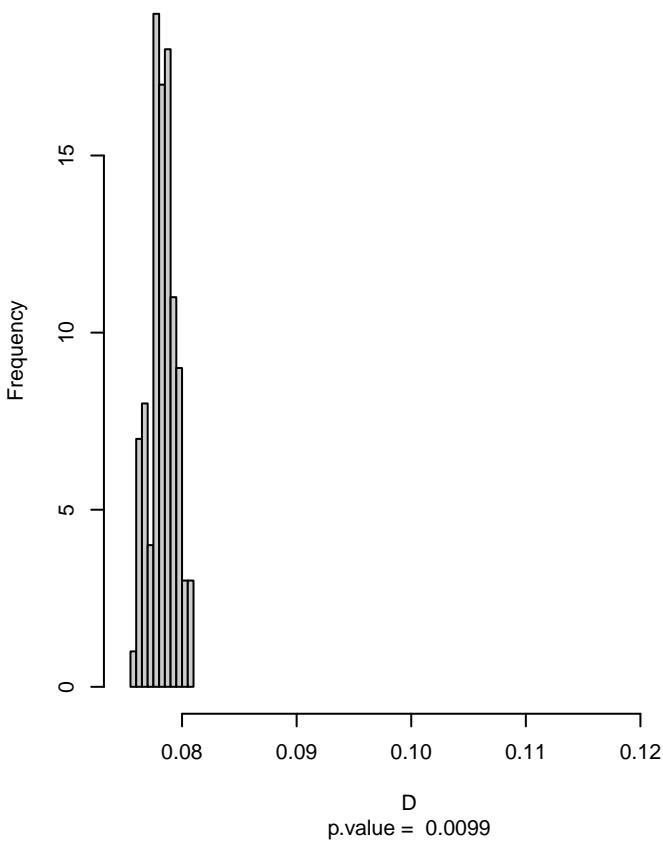
Similarity 1→2



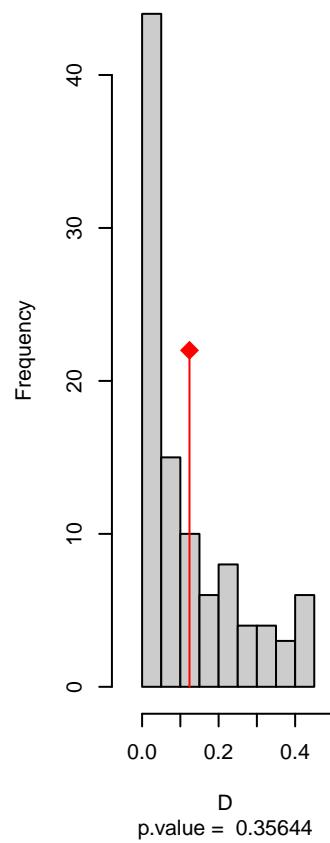
Delichon urbicum seasonal overlap–hypo wi



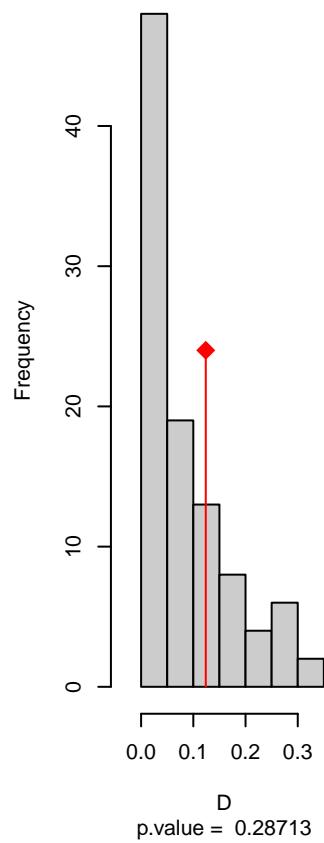
Equivalency



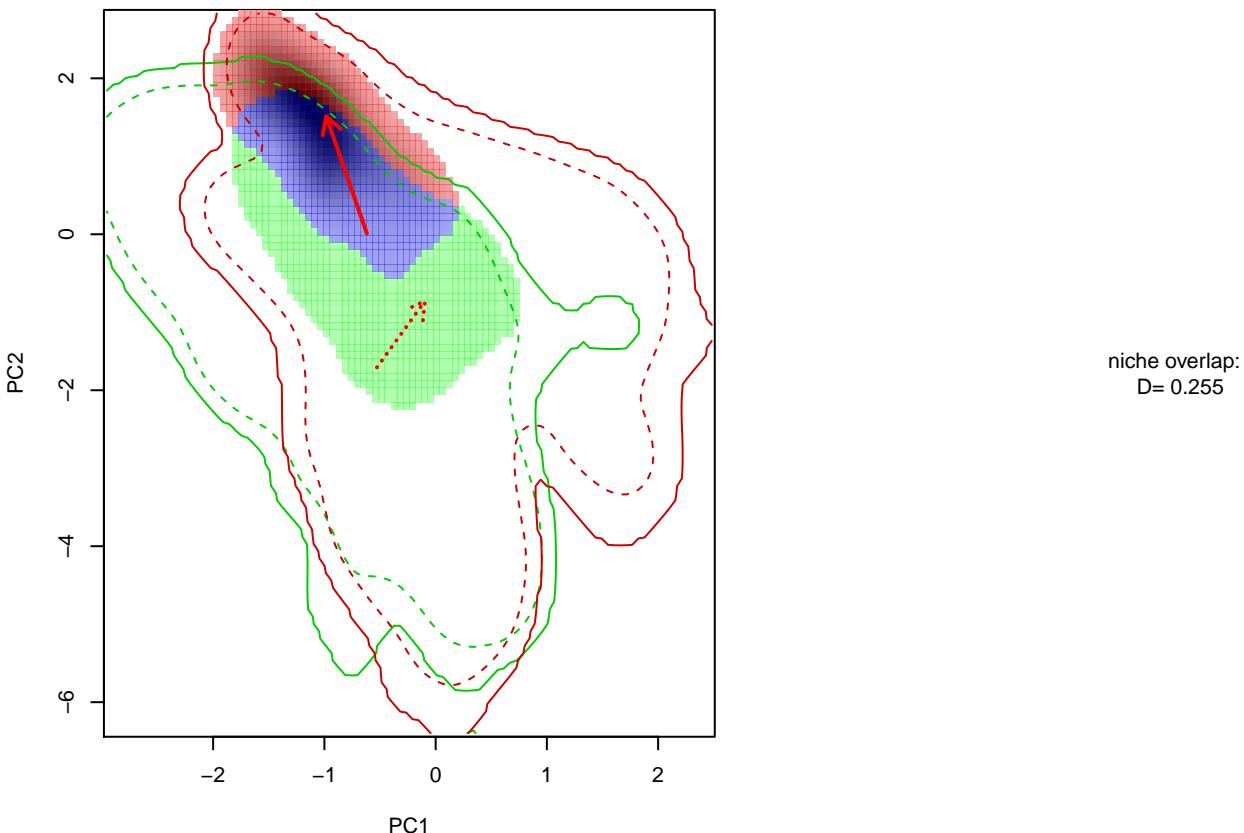
Similarity 2→1



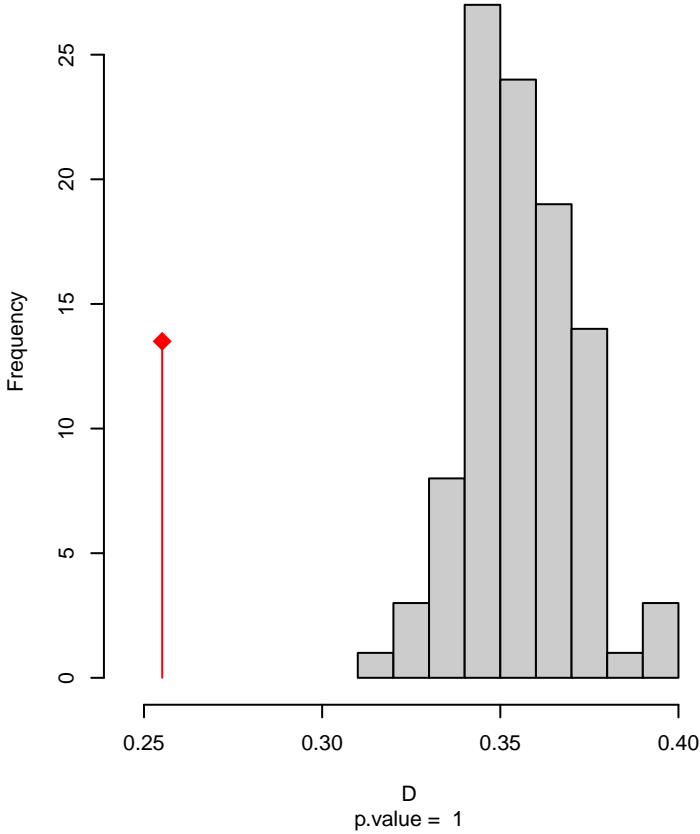
Similarity 1→2



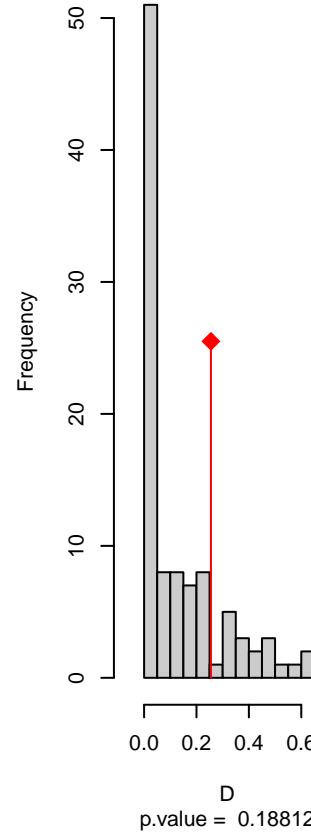
Haplochelidon_andecola seasonal overlap



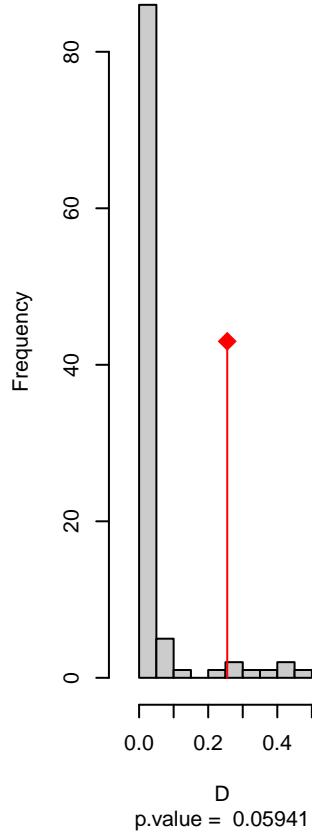
Equivalency



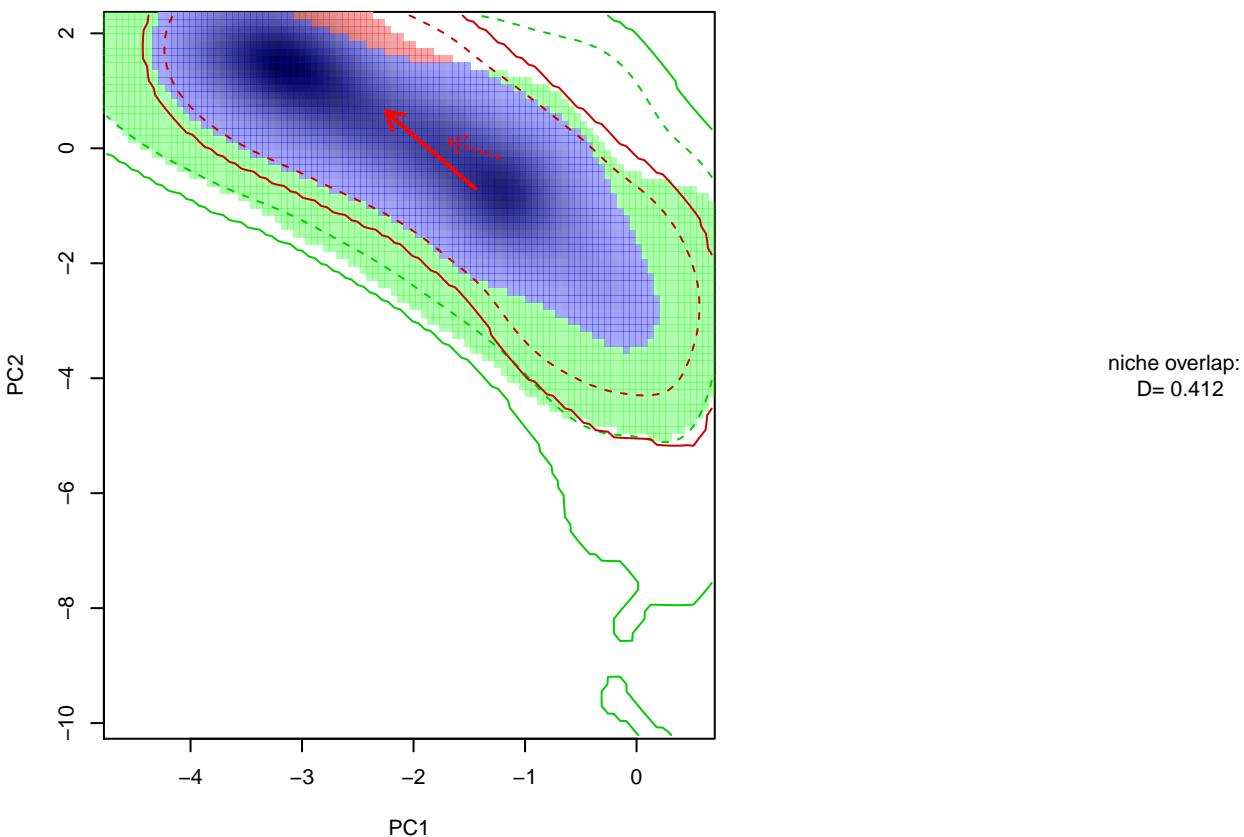
Similarity 2→1



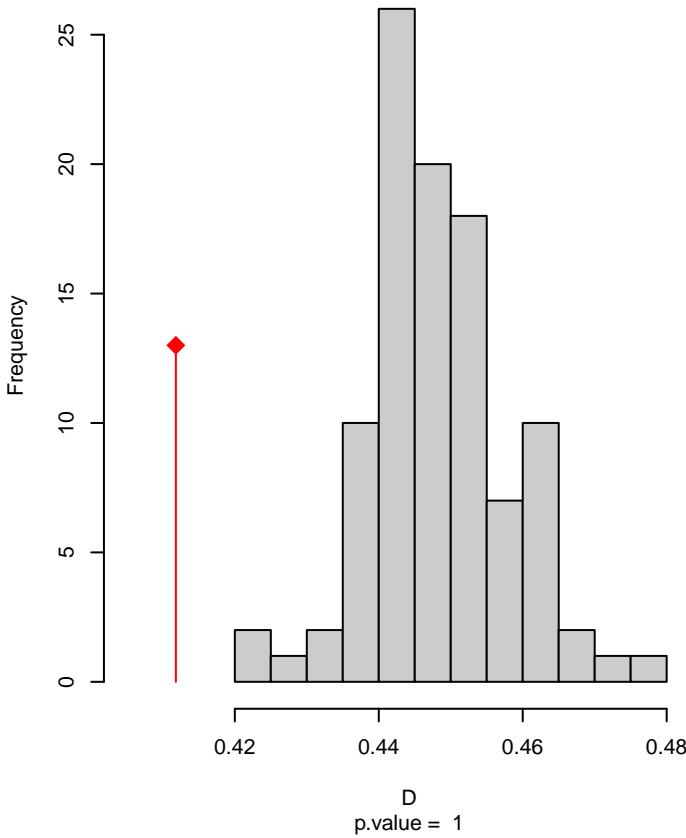
Similarity 1→2



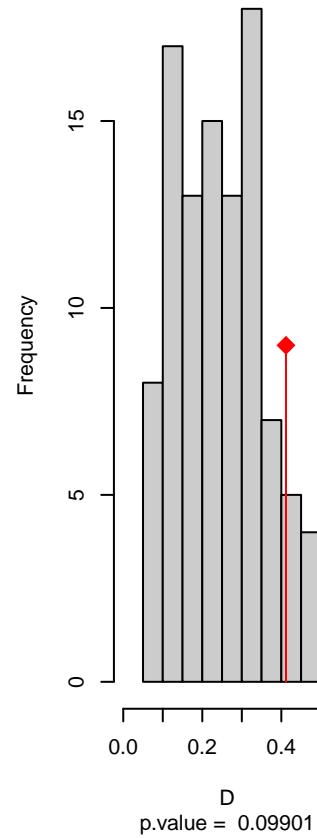
Hirundo_aethiopica seasonal overlap



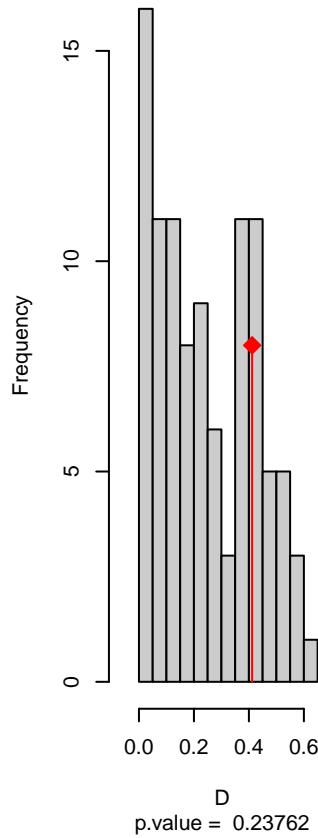
Equivalency



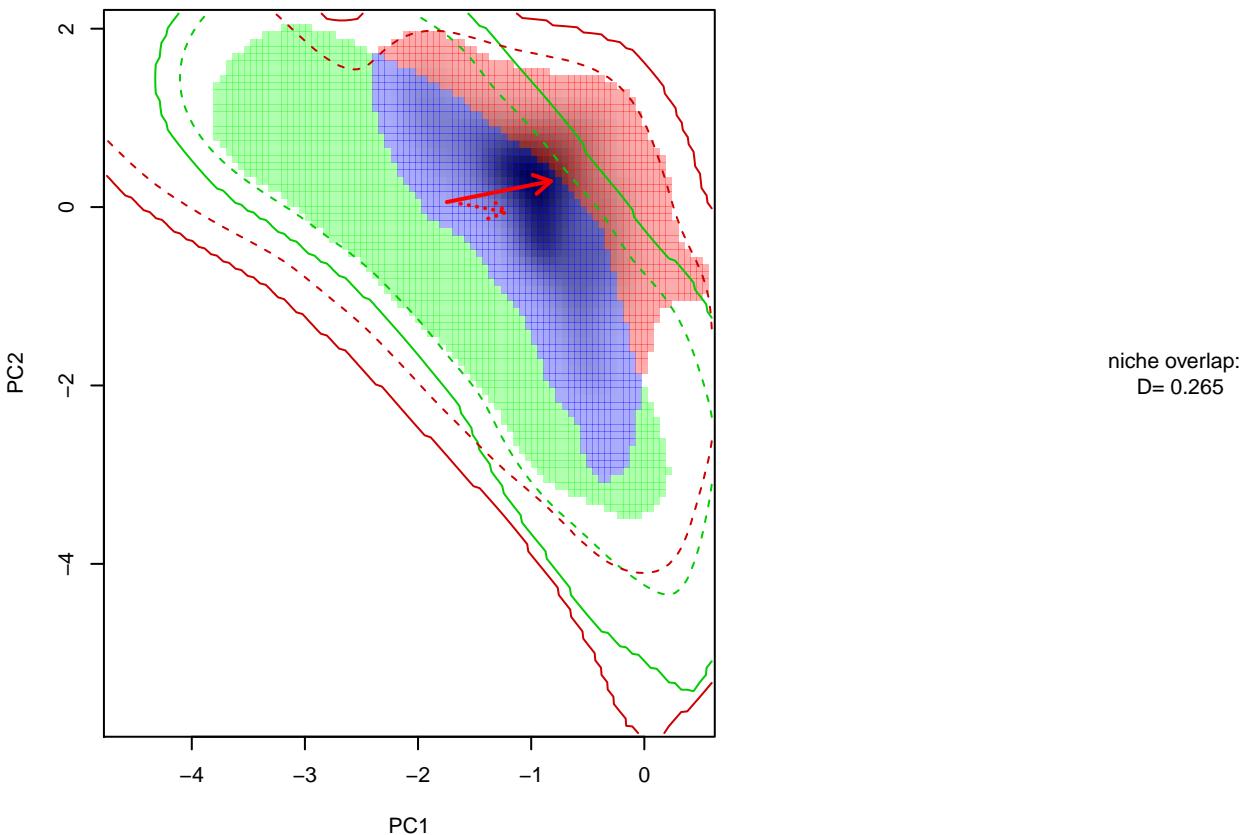
Similarity 2->1



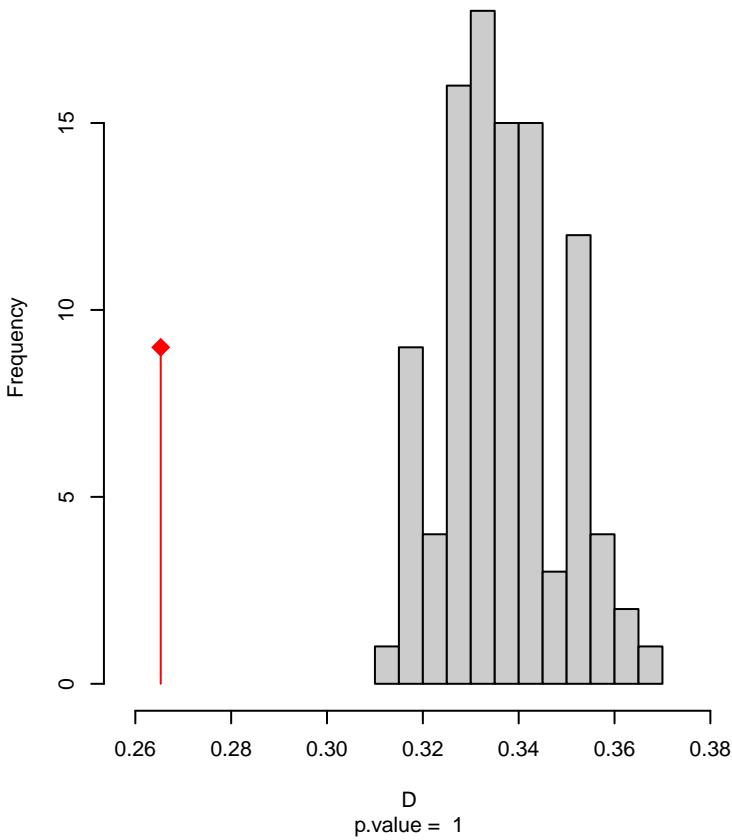
Similarity 1->2



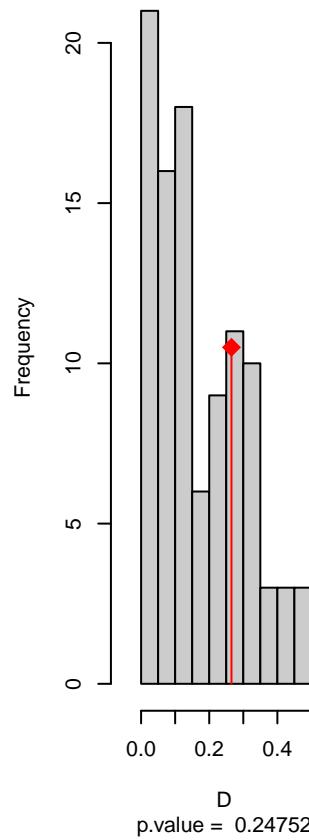
Hirundo_albigularis seasonal overlap



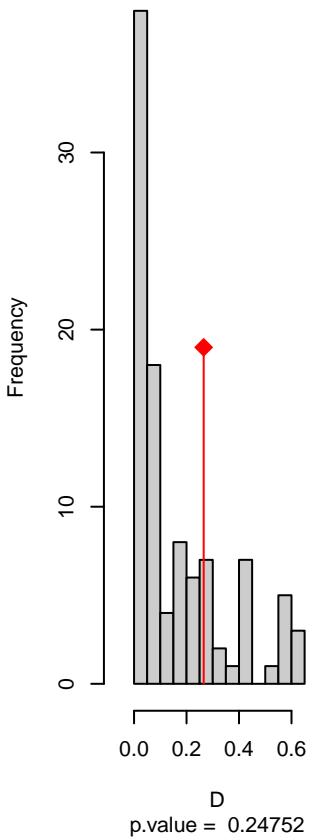
Equivalency



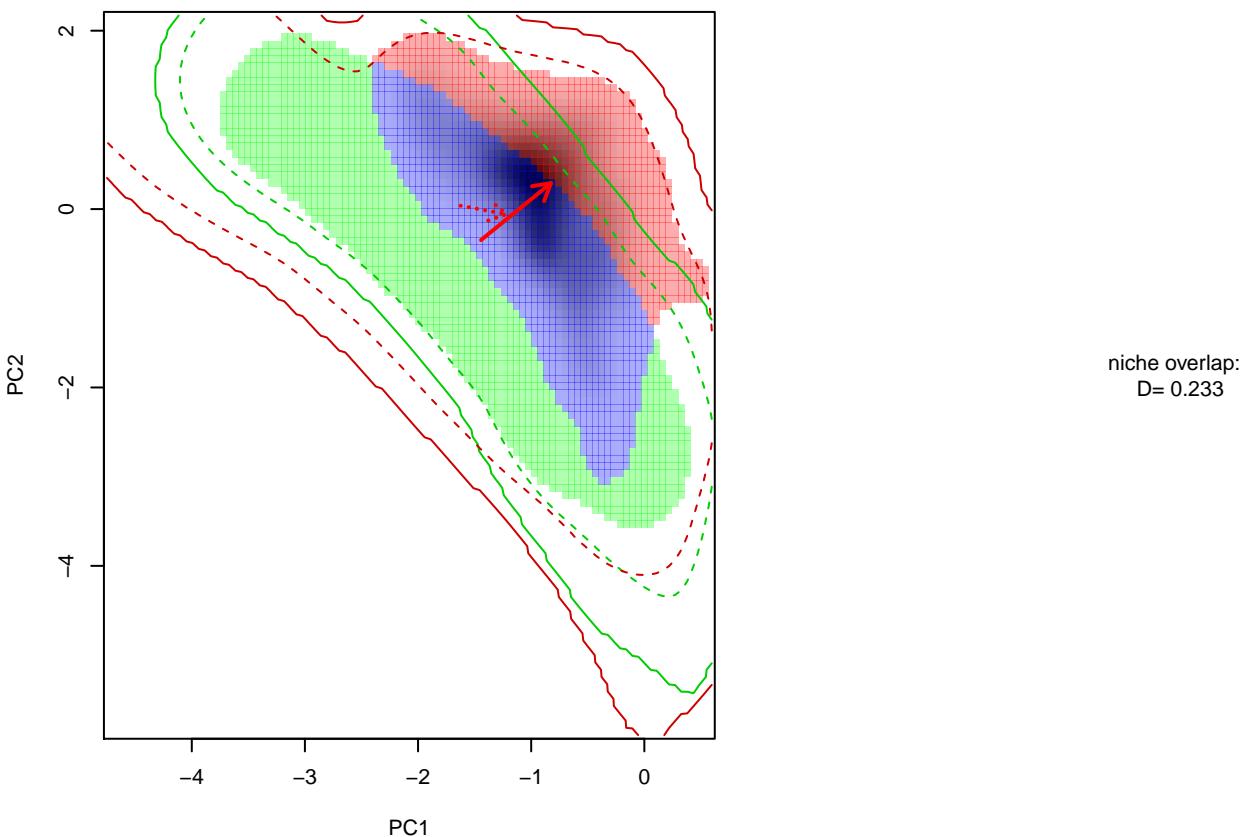
Similarity 2→1



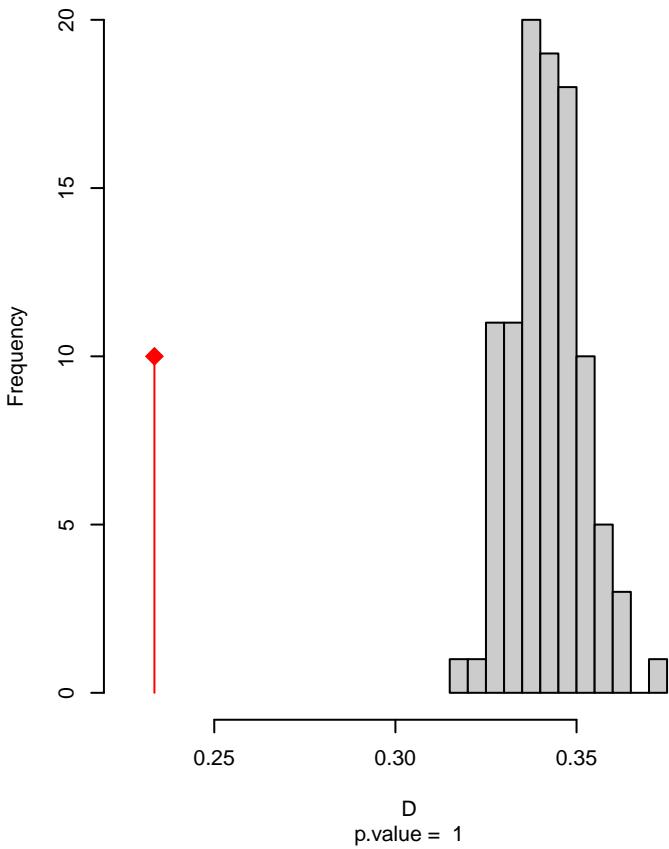
Similarity 1→2



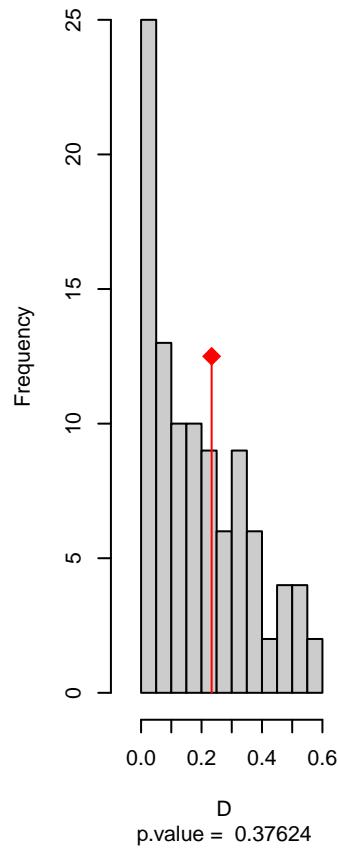
Hirundo_albigularis seasonal overlap-hypo.br



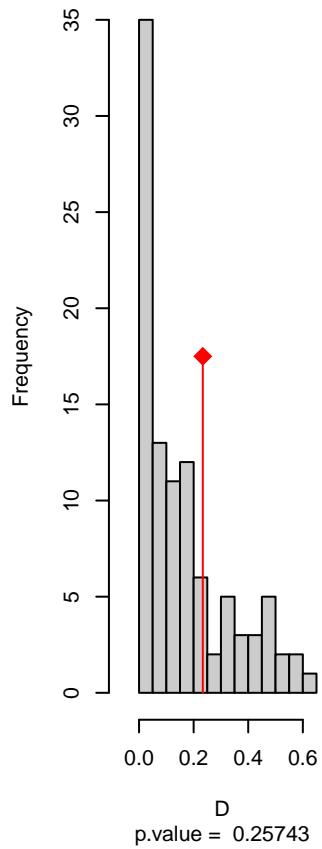
Equivalency



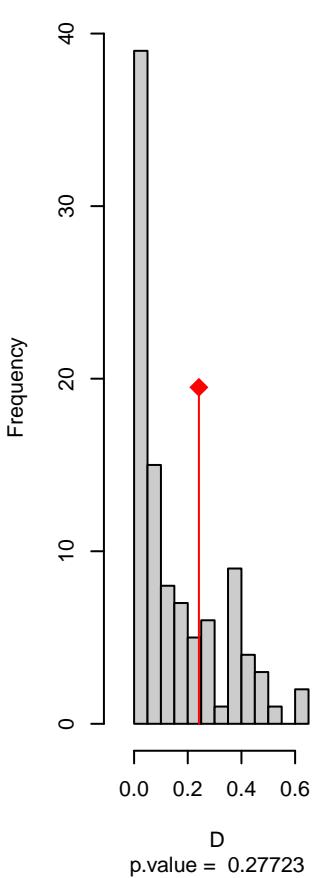
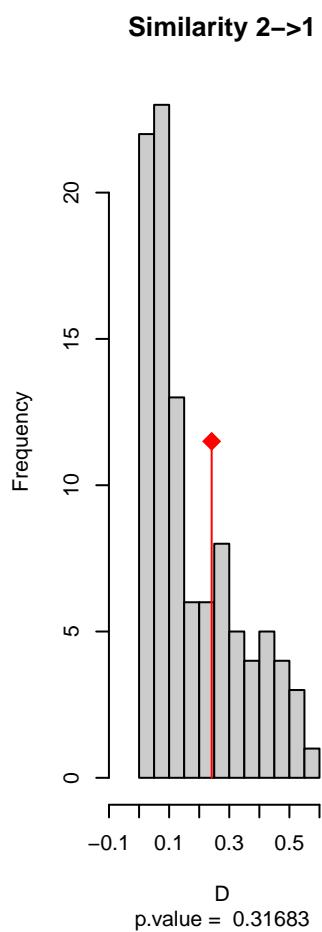
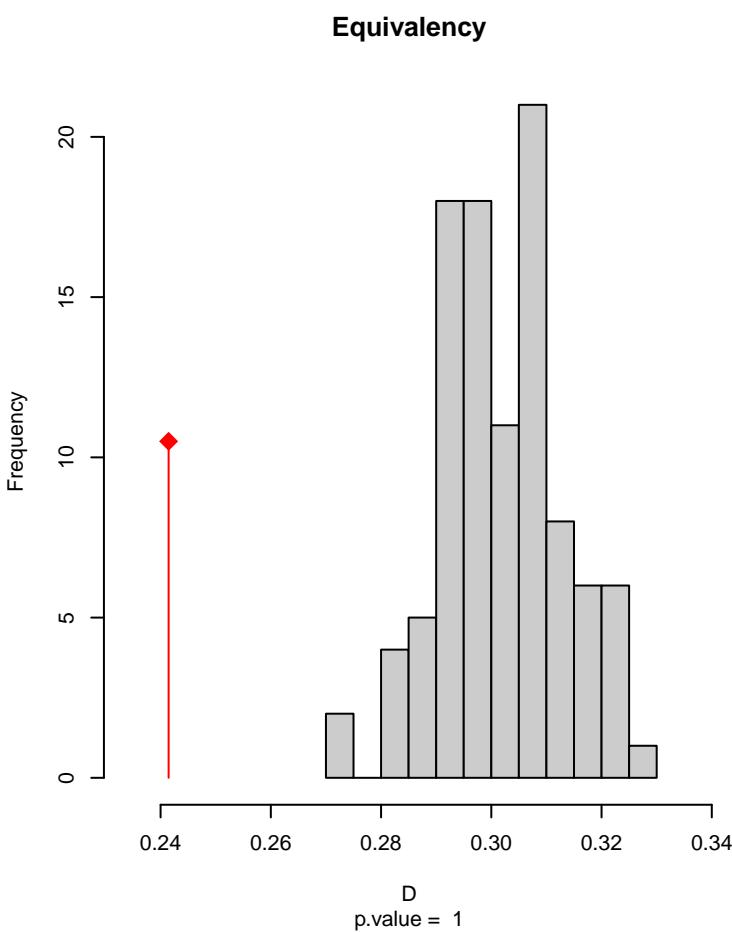
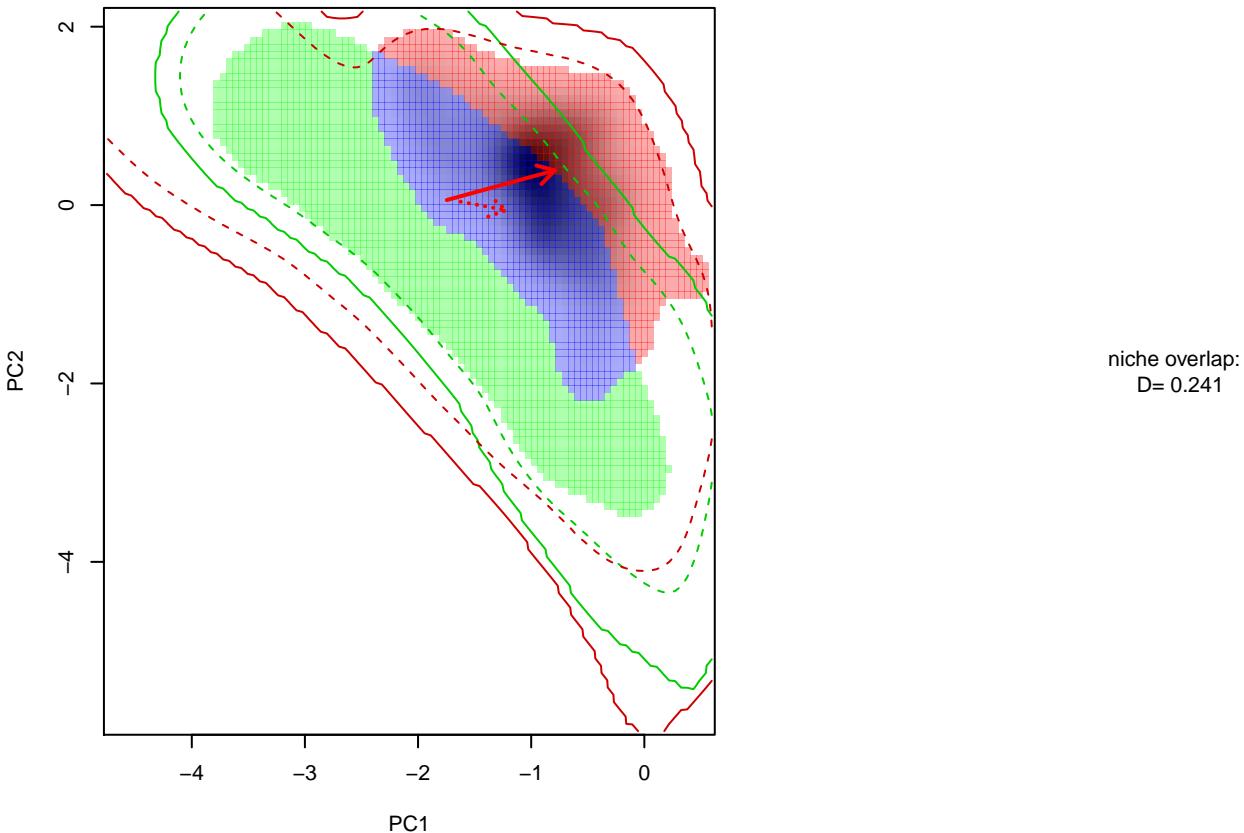
Similarity 2→1



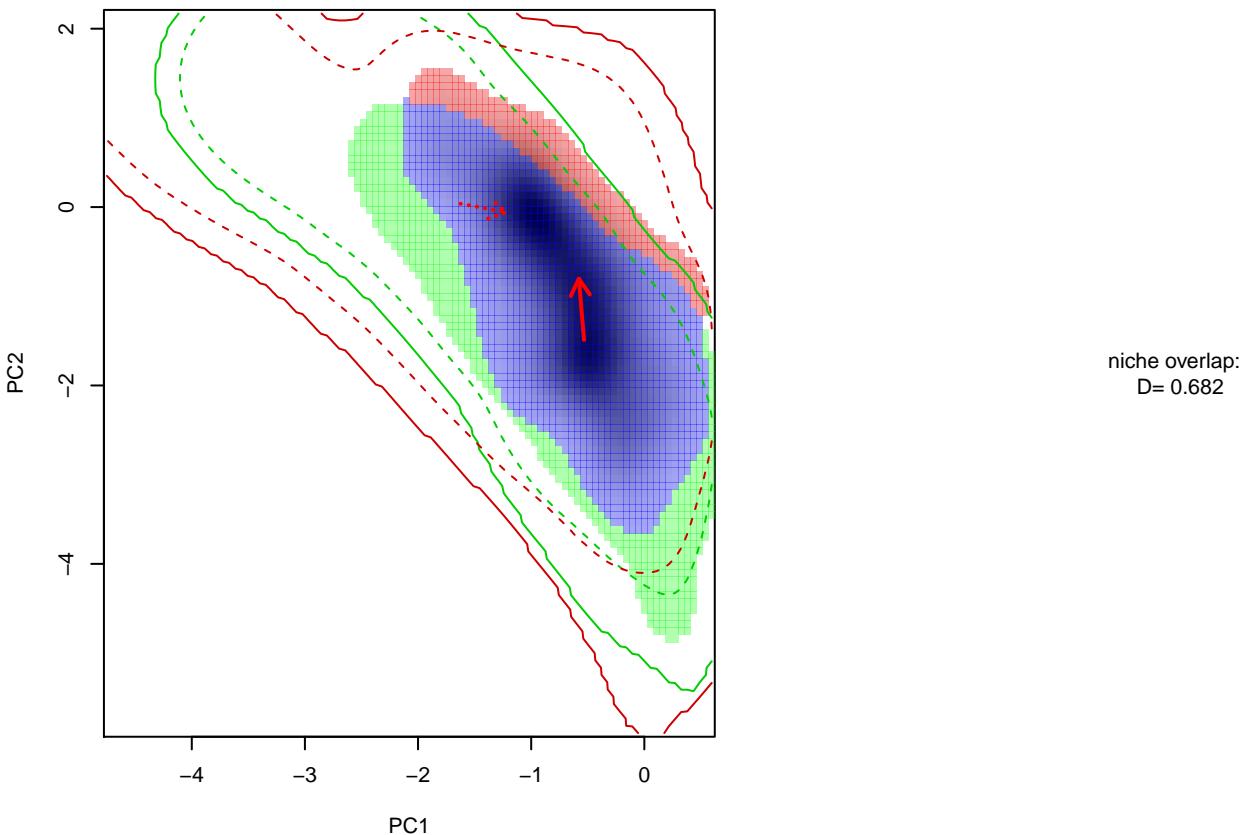
Similarity 1→2



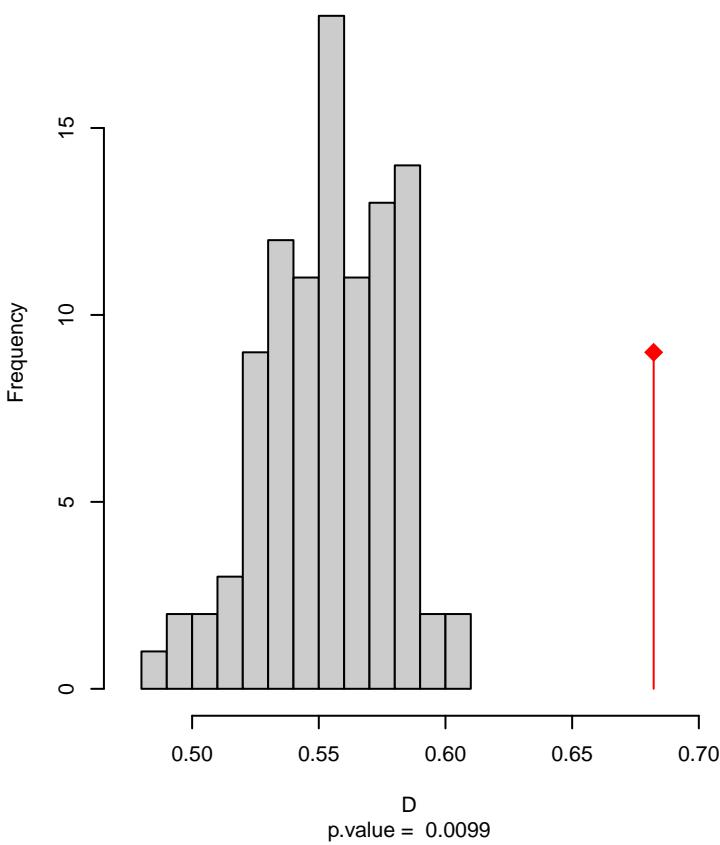
Hirundo_albigularis seasonal overlap-hypo wi



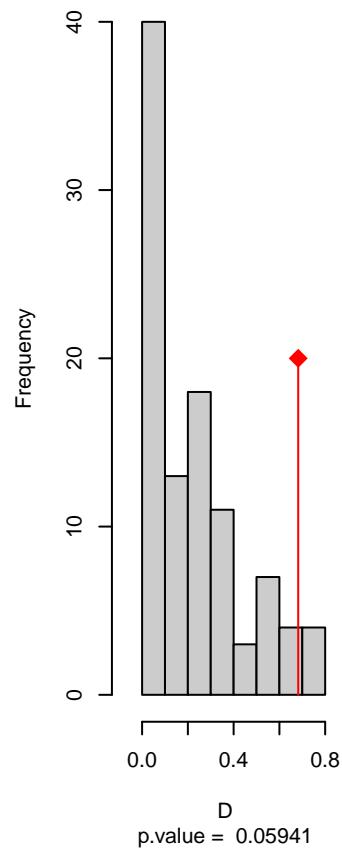
Hirundo_angolensis seasonal overlap



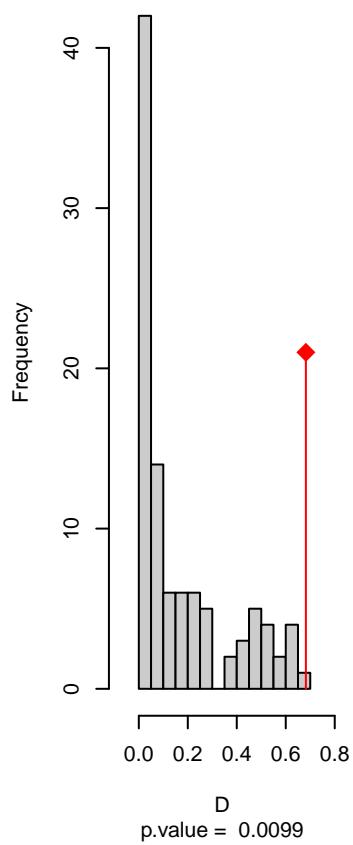
Equivalency



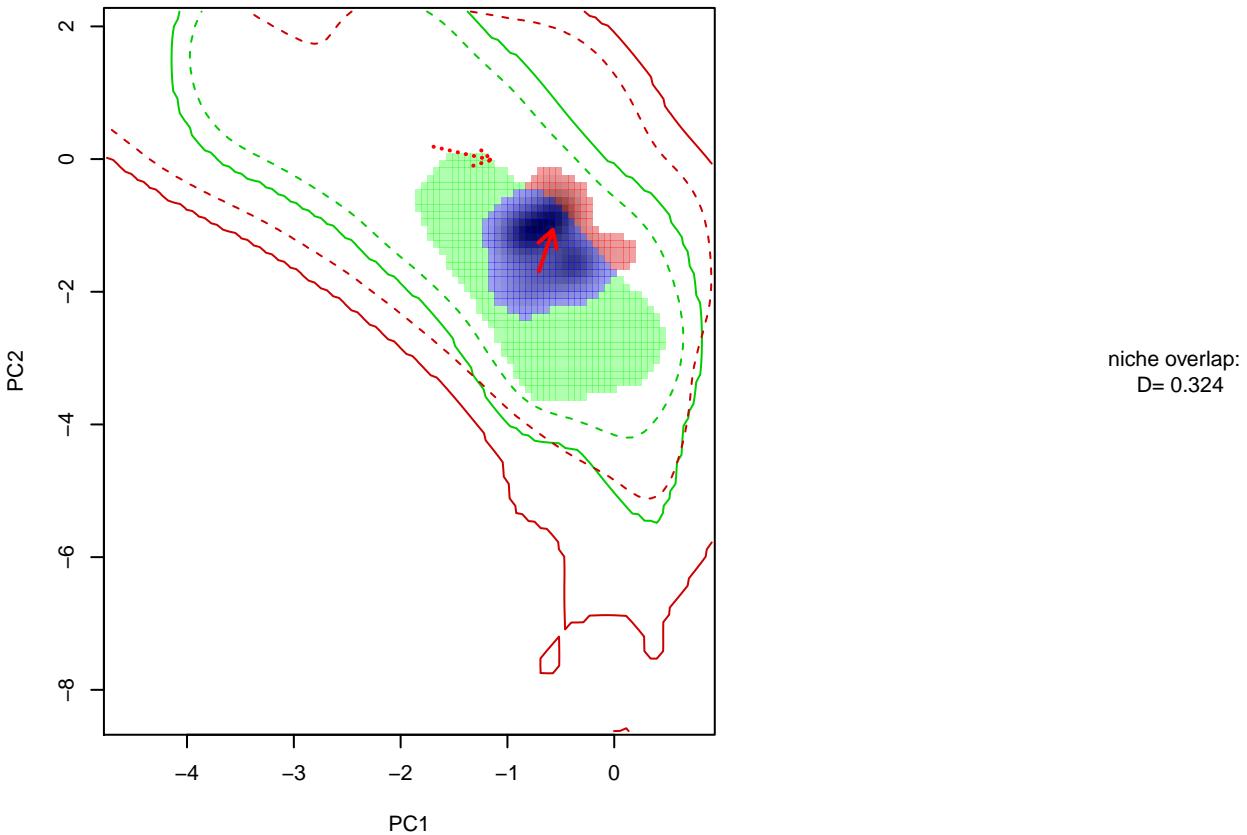
Similarity 2→1



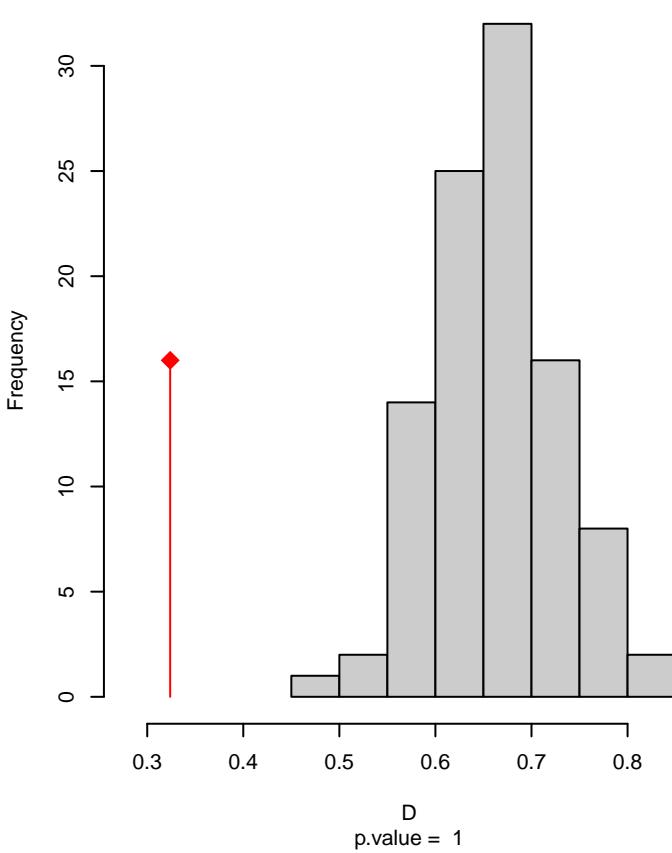
Similarity 1→2



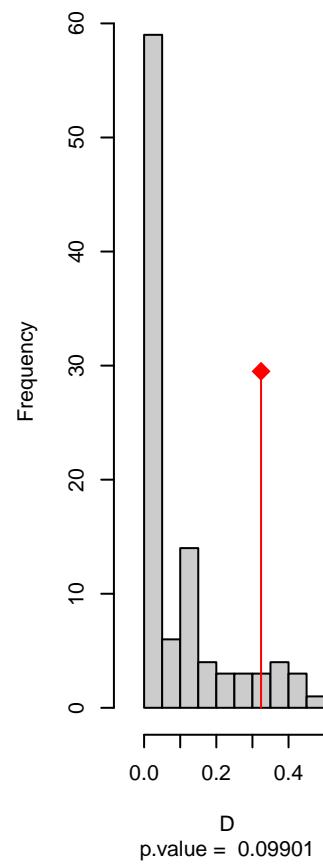
Hirundo_atrocaerulea seasonal overlap



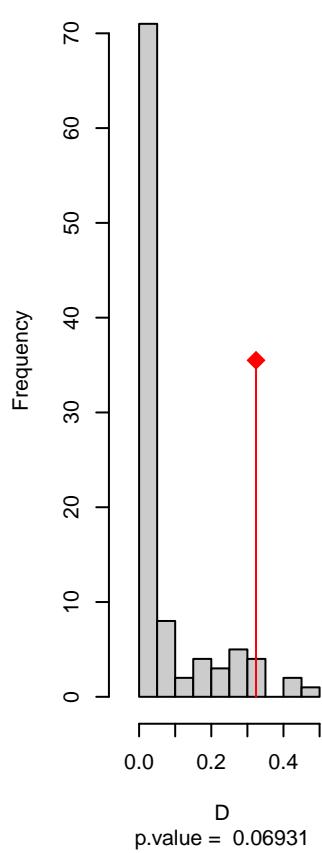
Equivalency



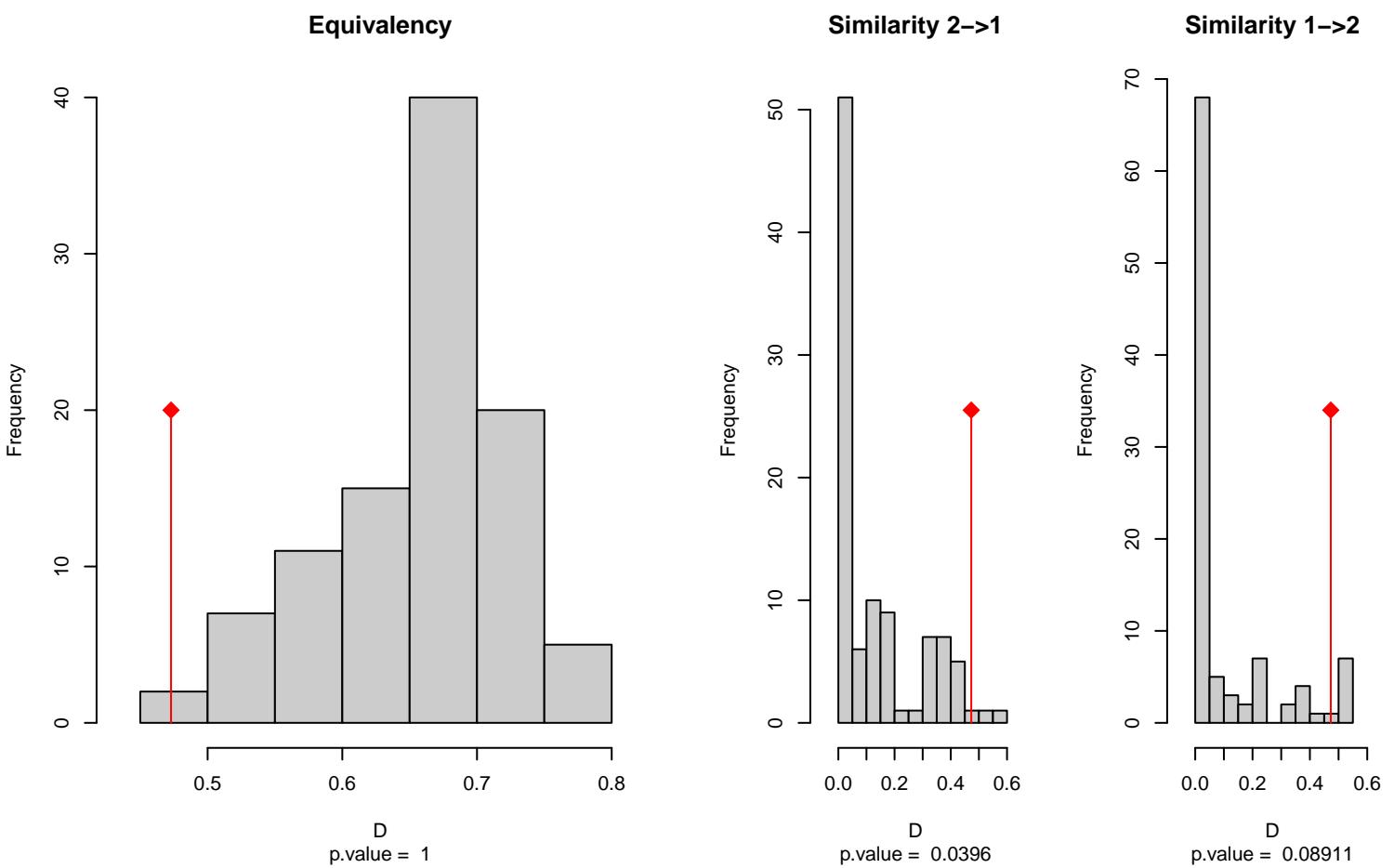
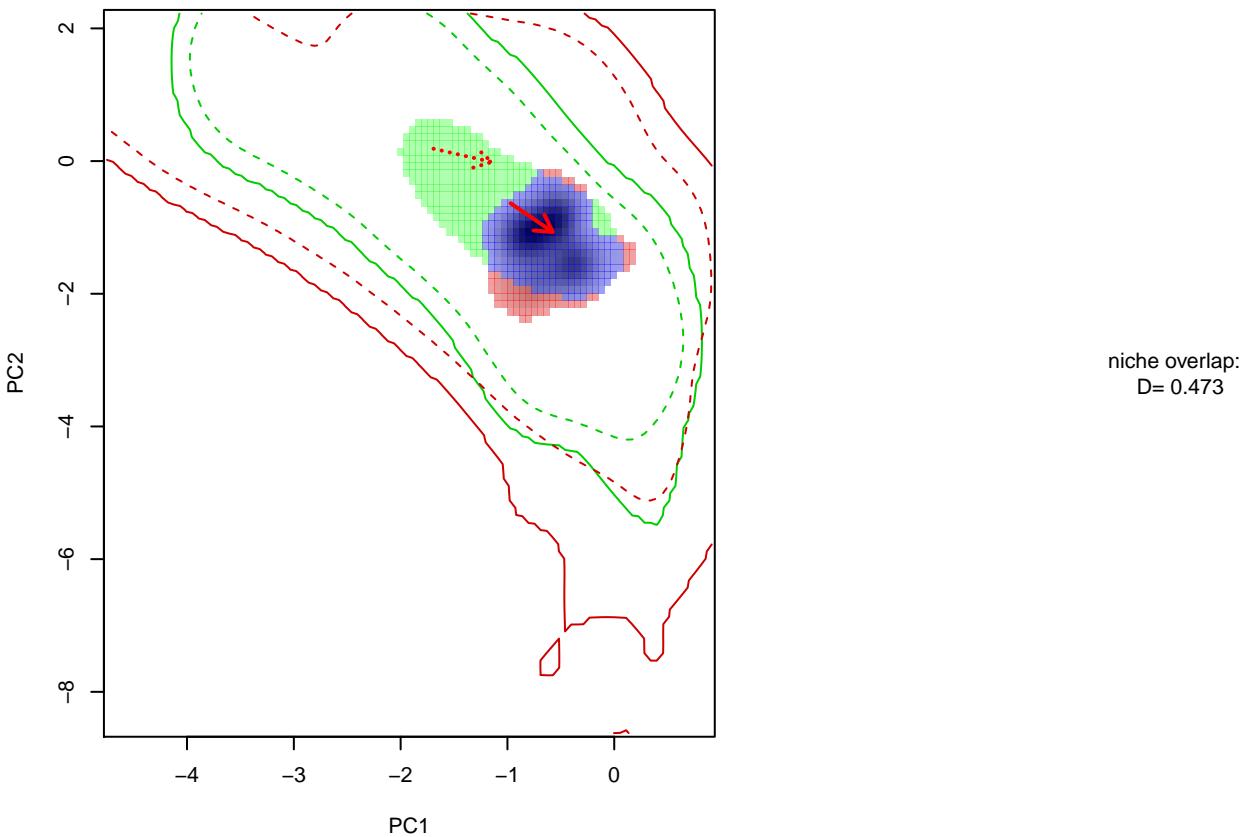
Similarity 2→1



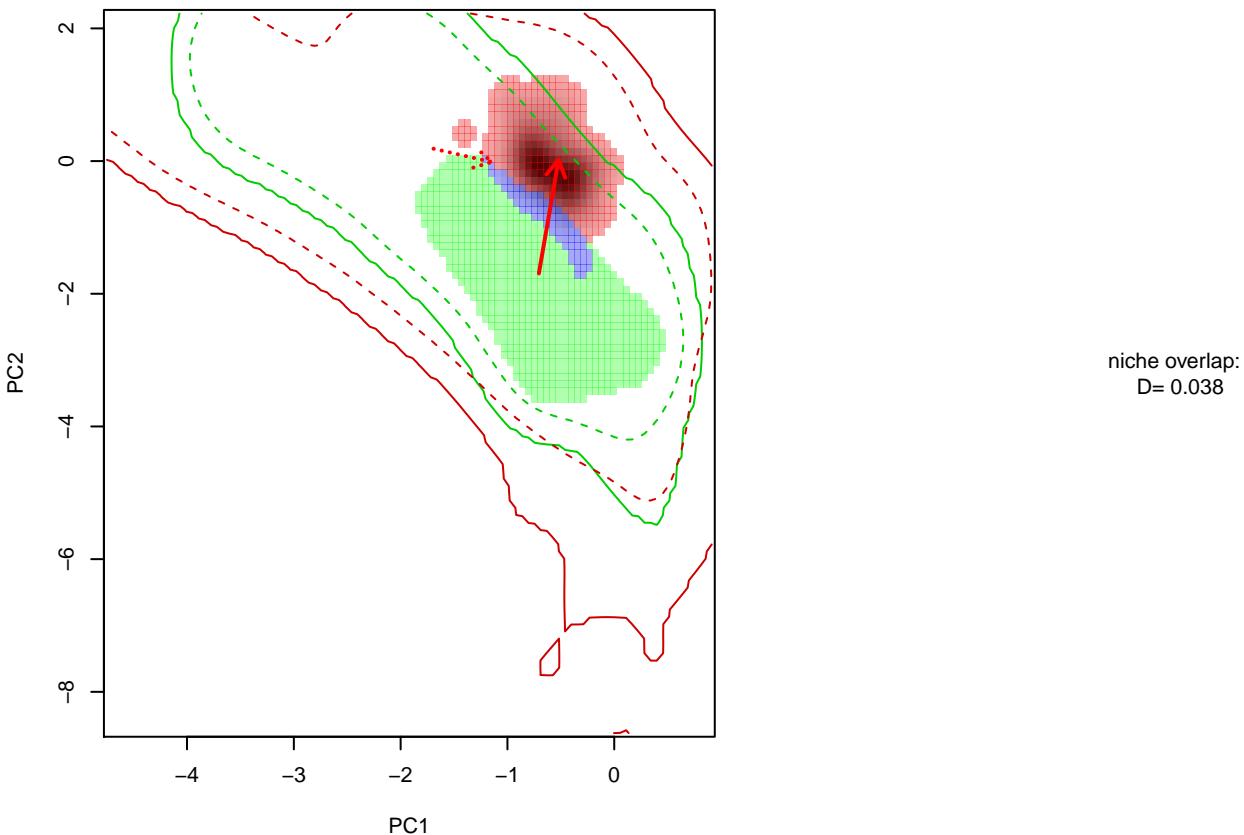
Similarity 1→2



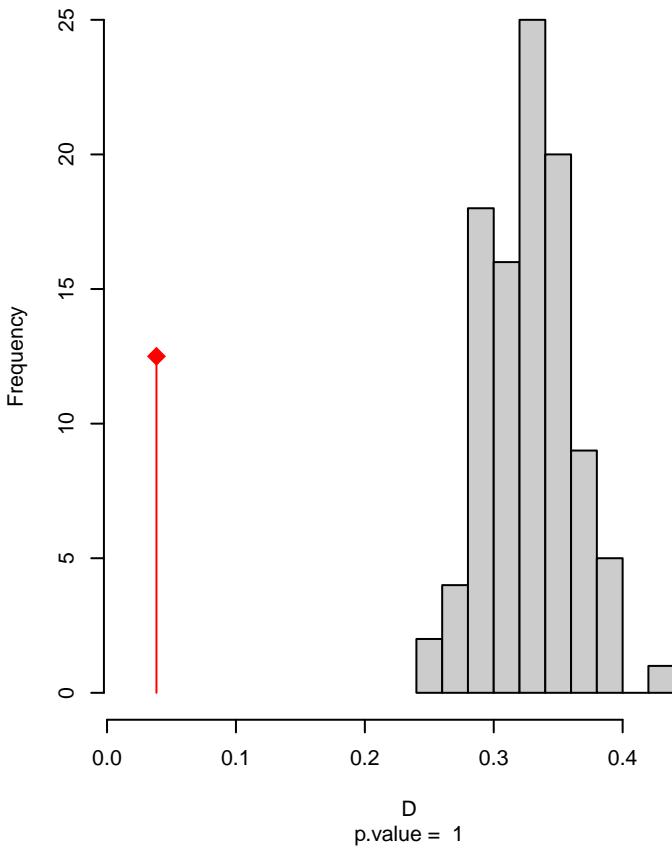
Hirundo_atrocaerulea seasonal overlap-hypo.br



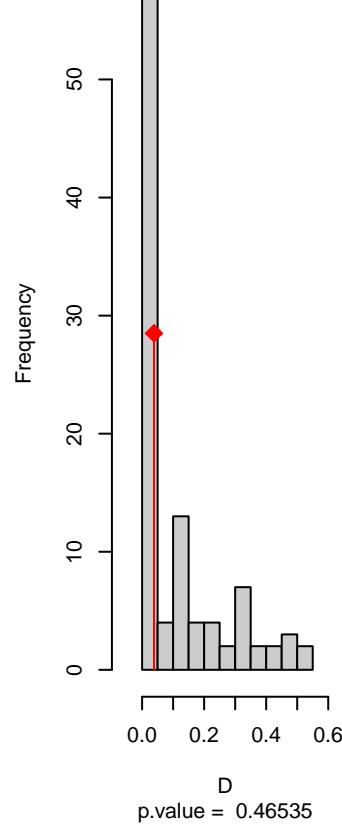
Hirundo_atrocaerulea seasonal overlap-hypo wi



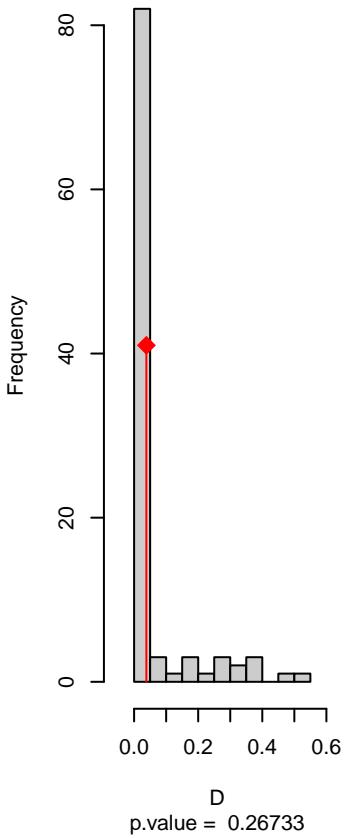
Equivalency



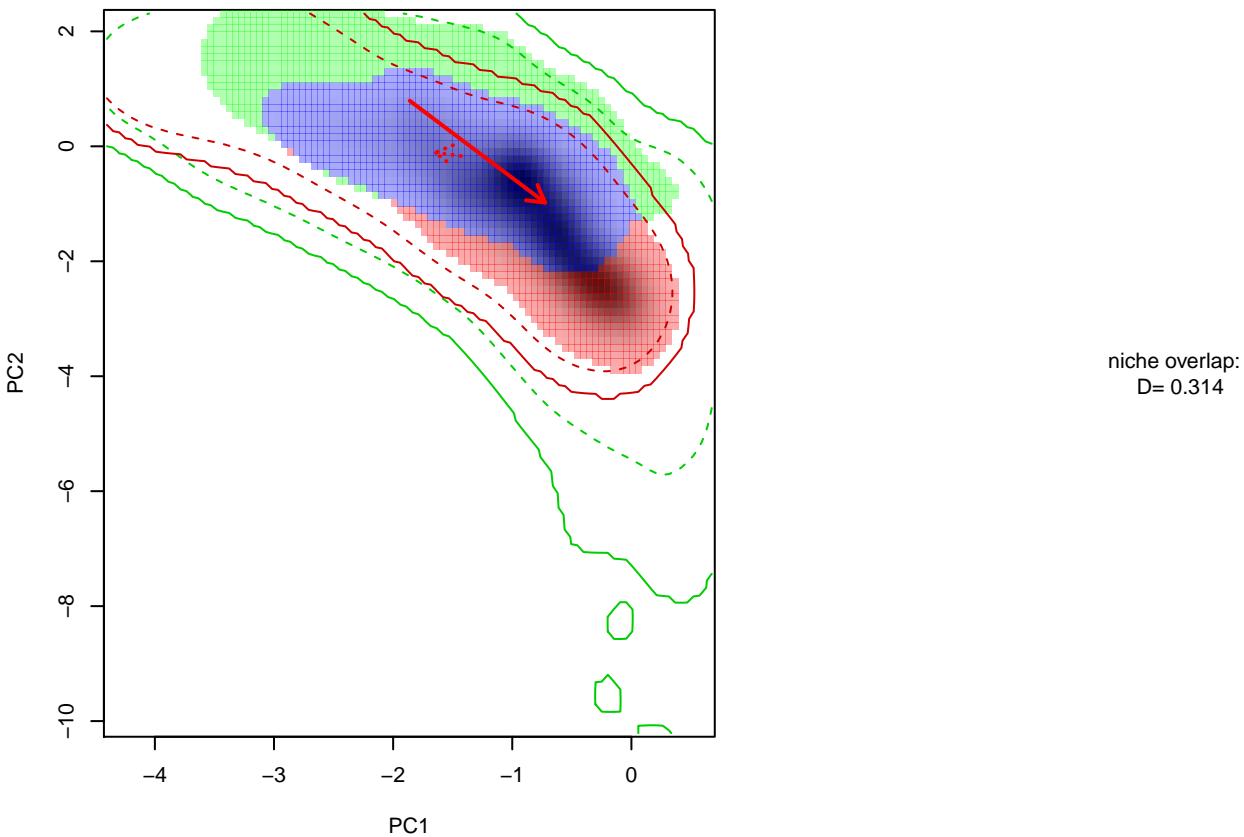
Similarity 2→1



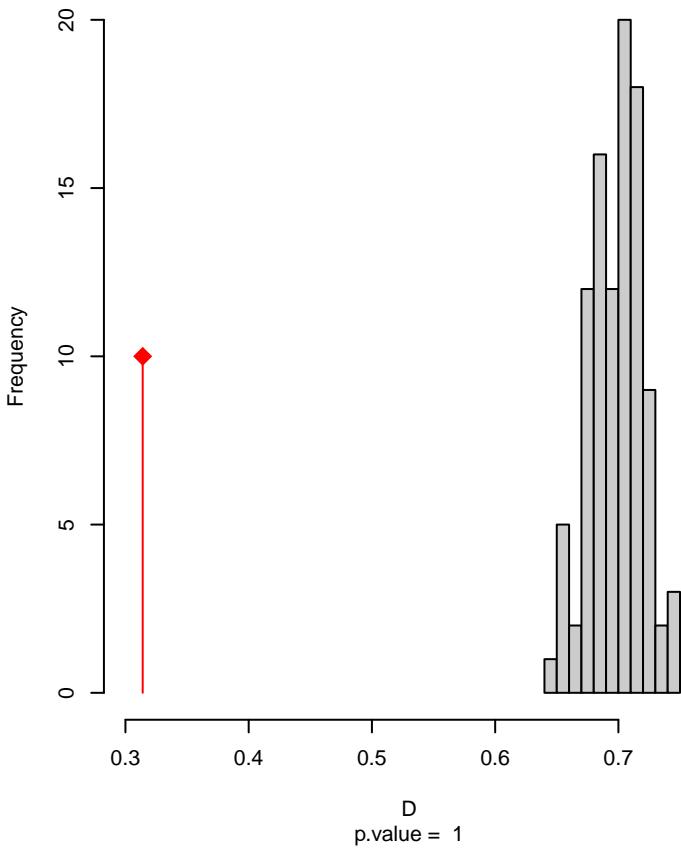
Similarity 1→2



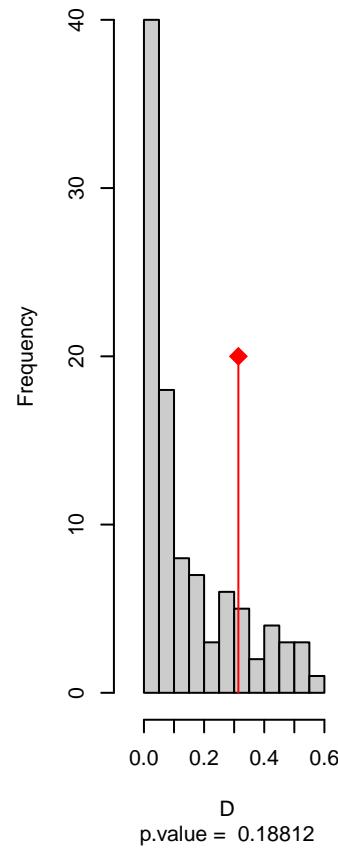
Hirundo_dimidiata seasonal overlap



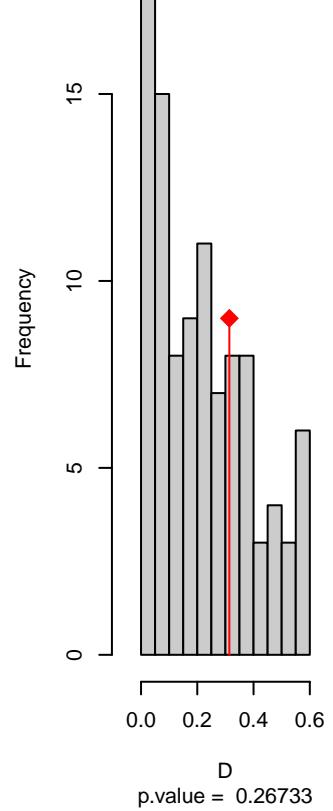
Equivalency



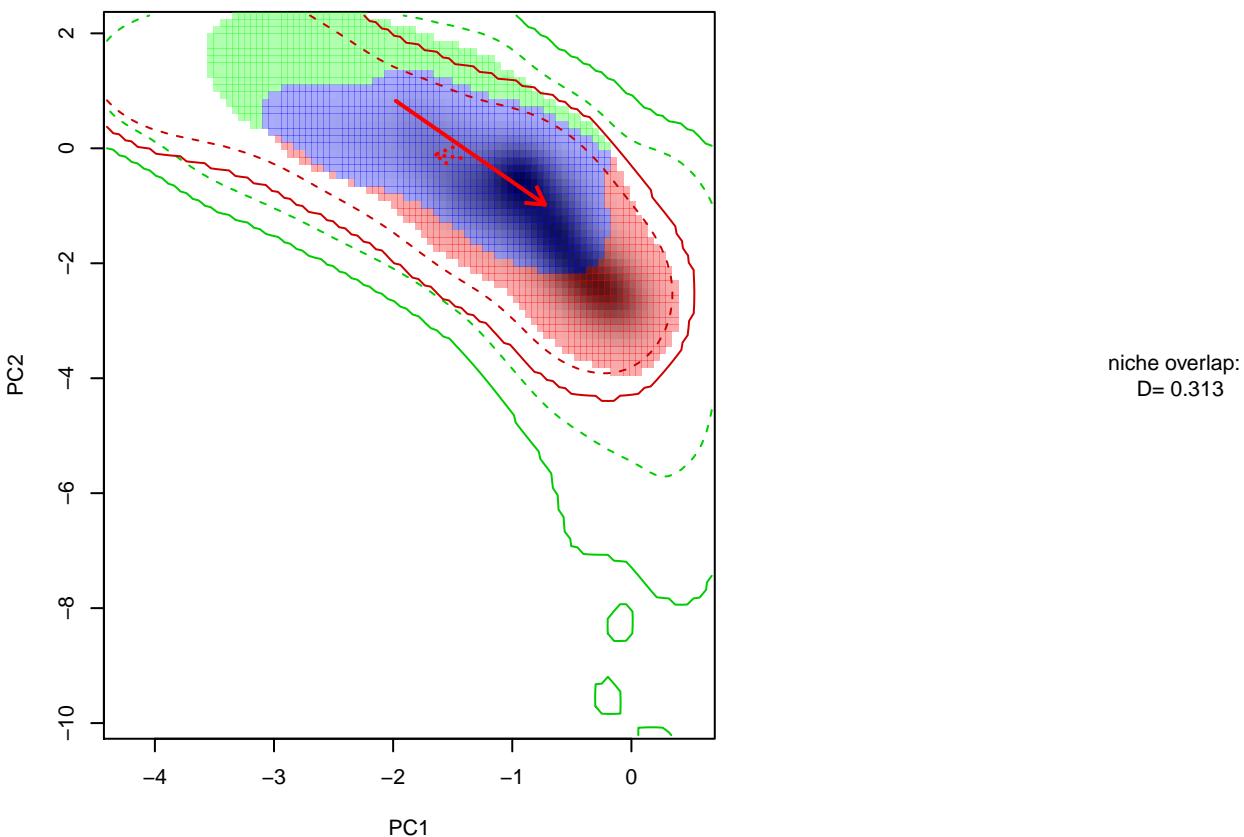
Similarity 2→1



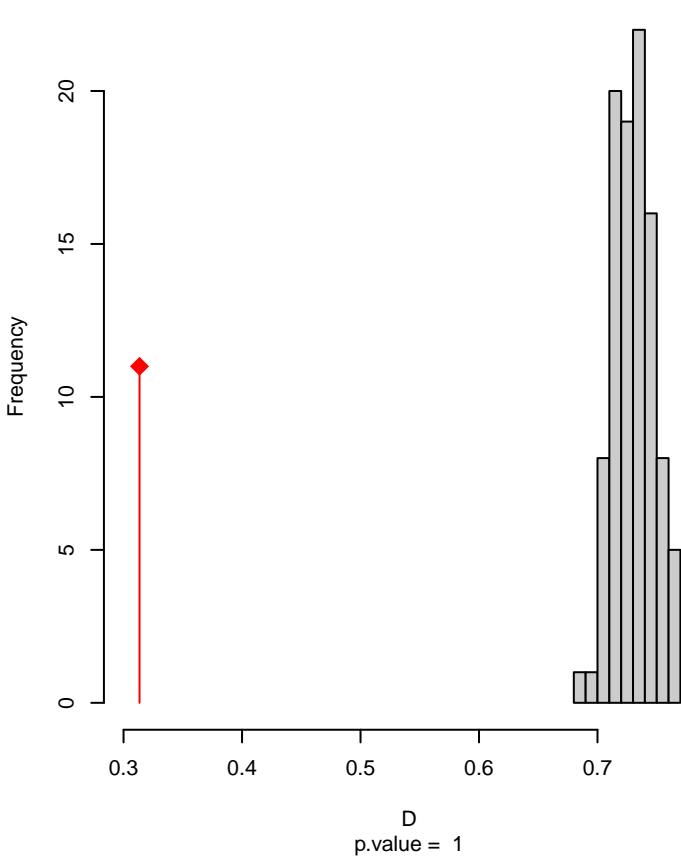
Similarity 1→2



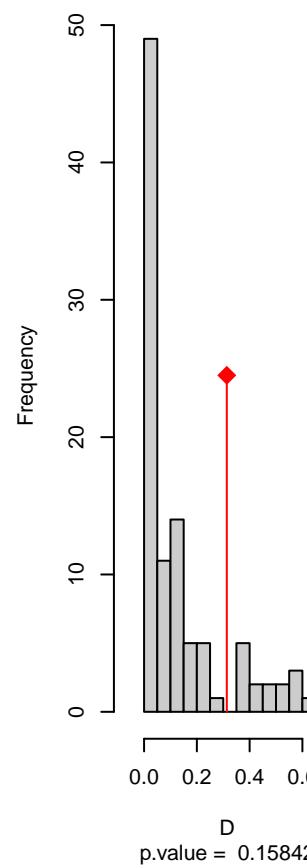
Hirundo_dimidiata seasonal overlap–hypo.br



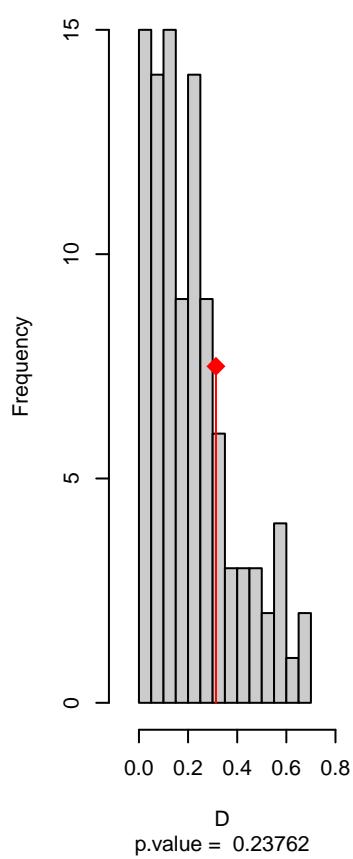
Equivalency



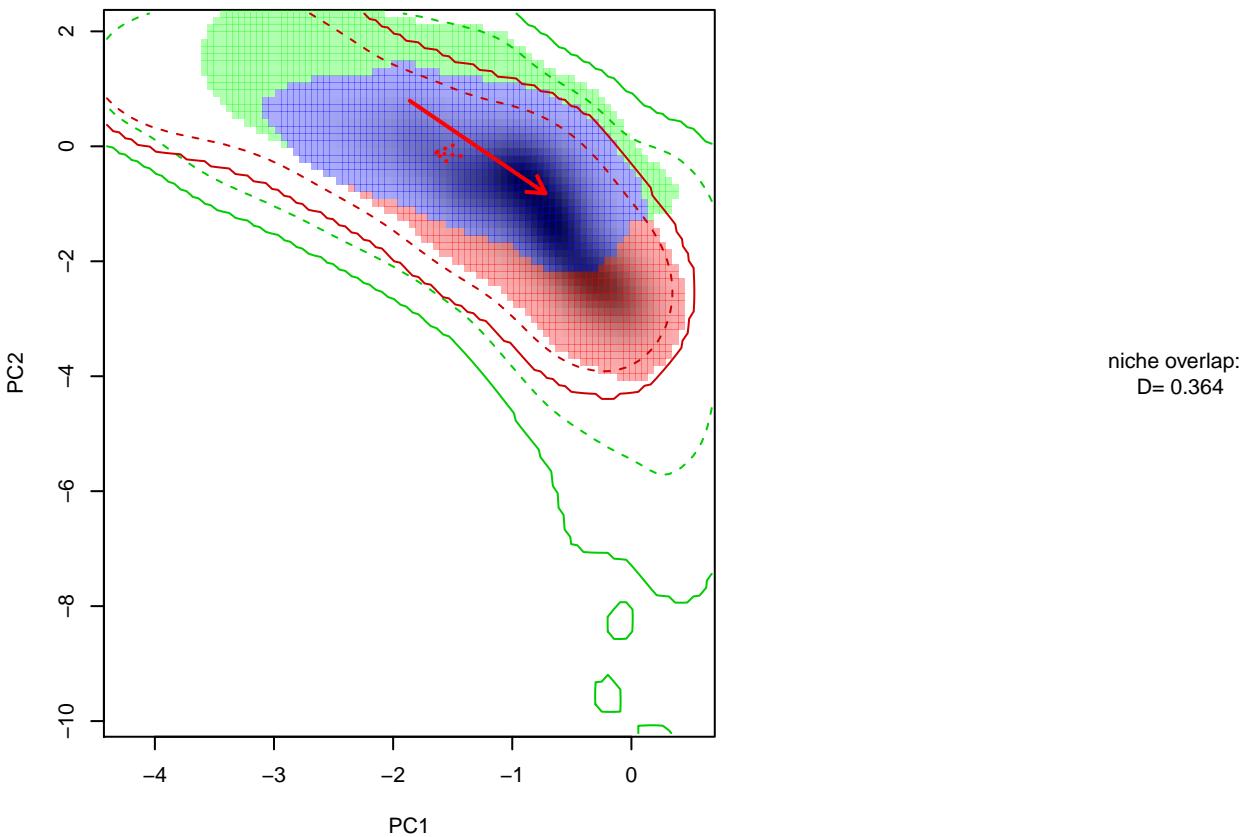
Similarity 2→1



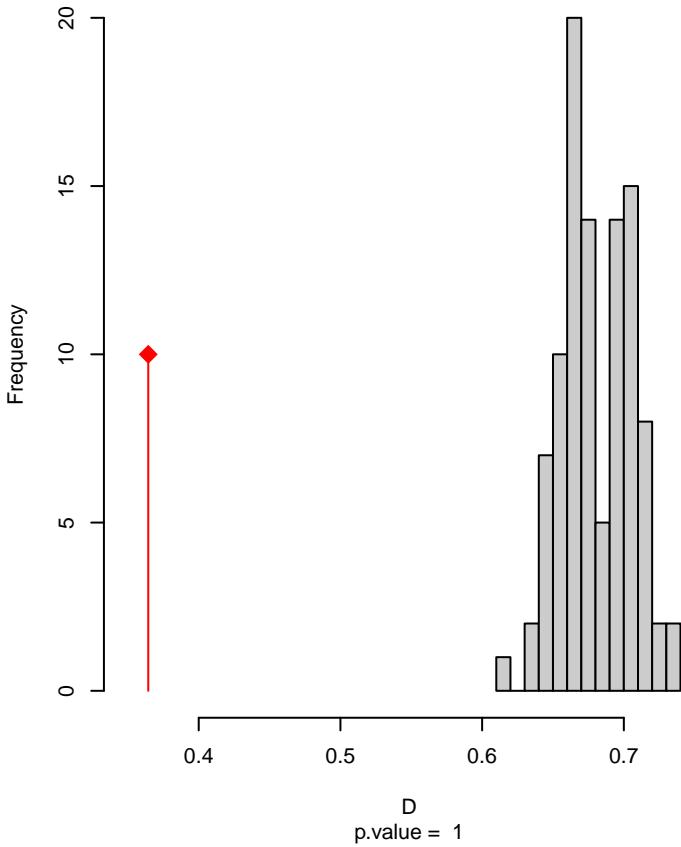
Similarity 1→2



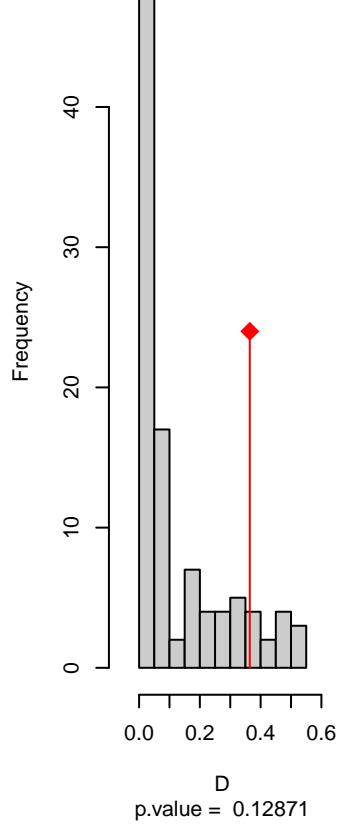
Hirundo_dimidiata seasonal overlap–hypo wi



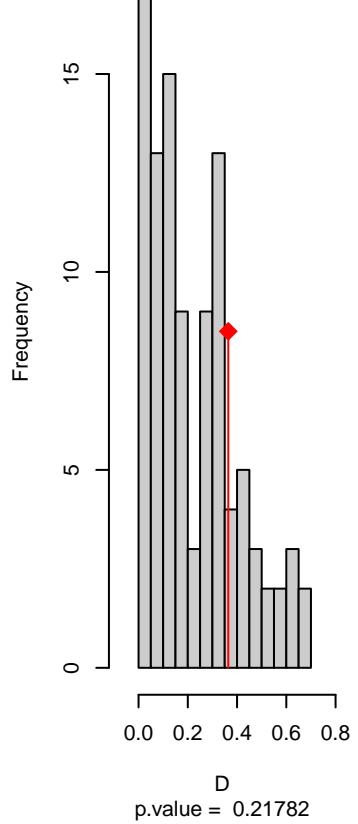
Equivalency



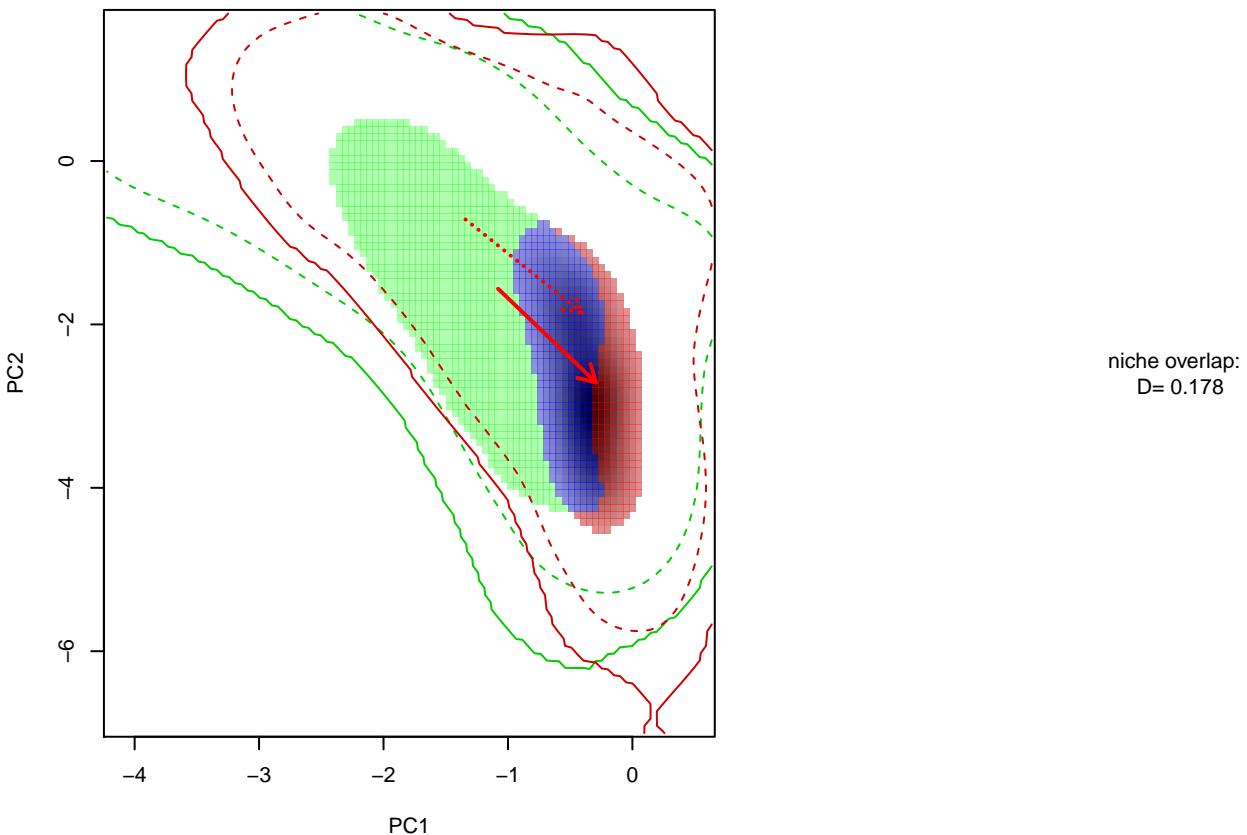
Similarity 2→1



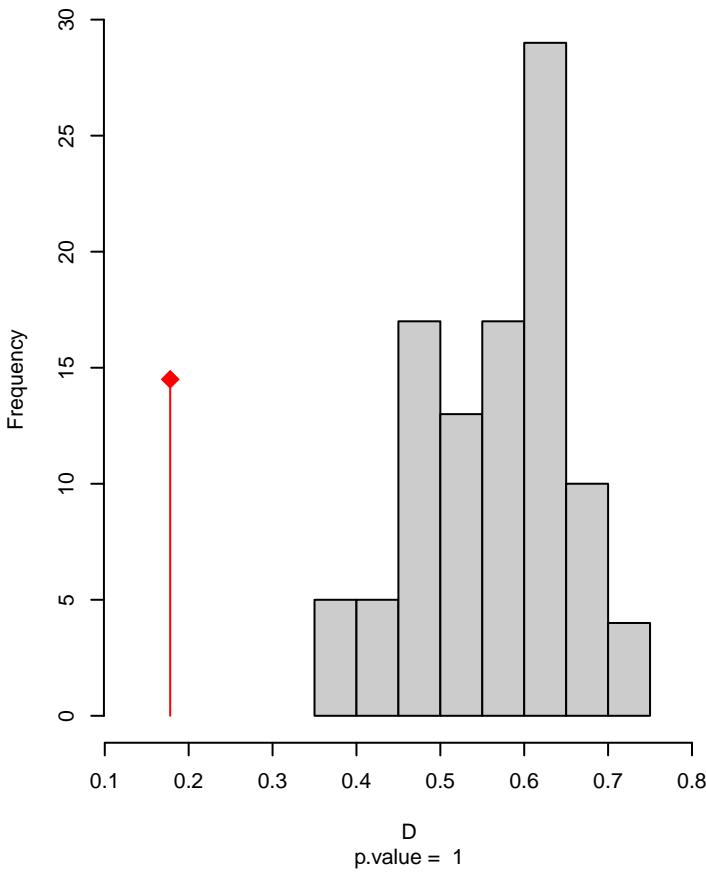
Similarity 1→2



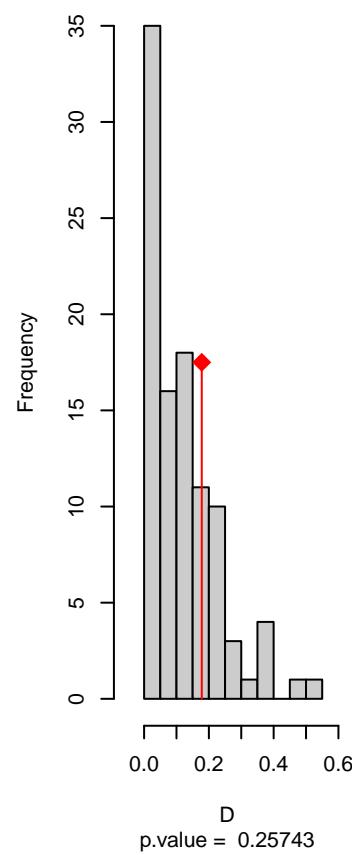
Hirundo_domicola seasonal overlap



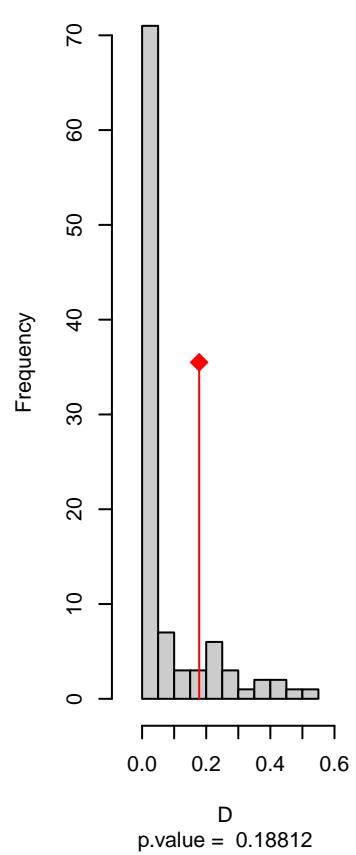
Equivalency



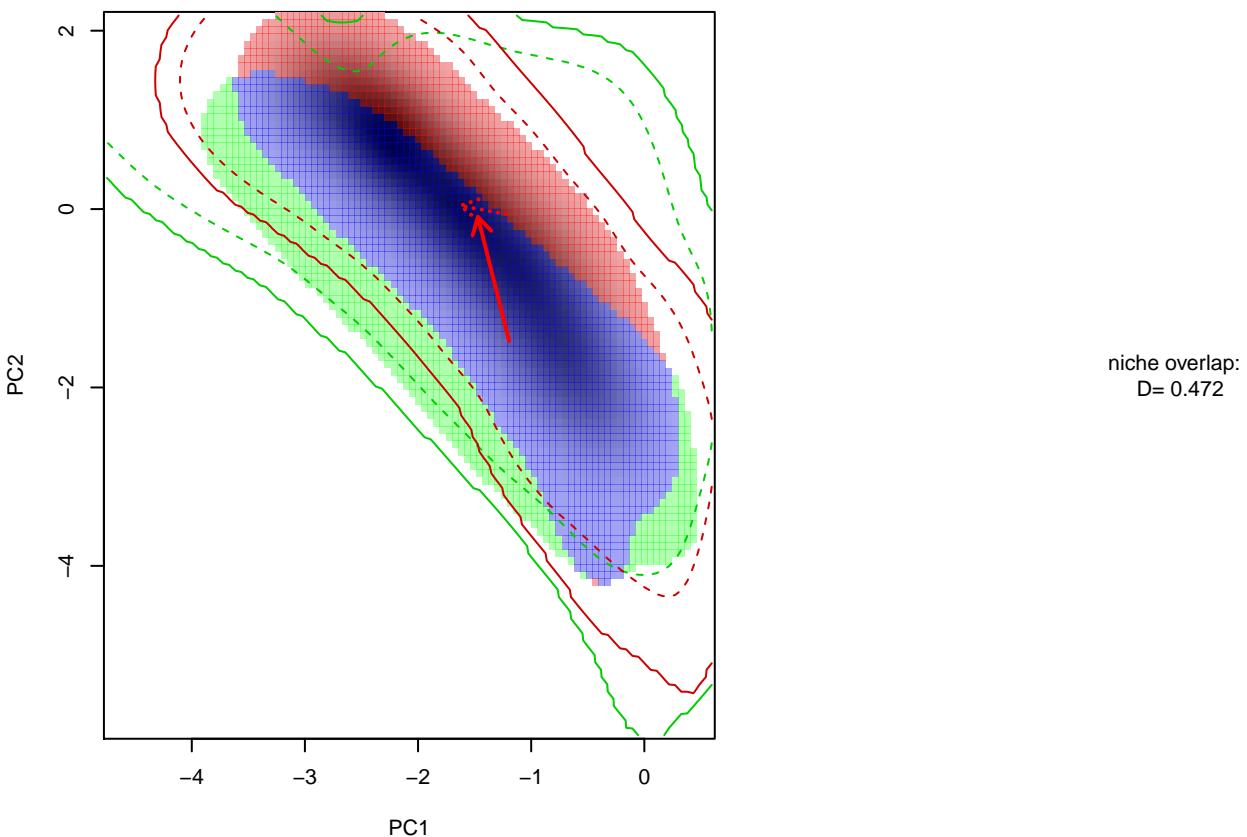
Similarity 2→1



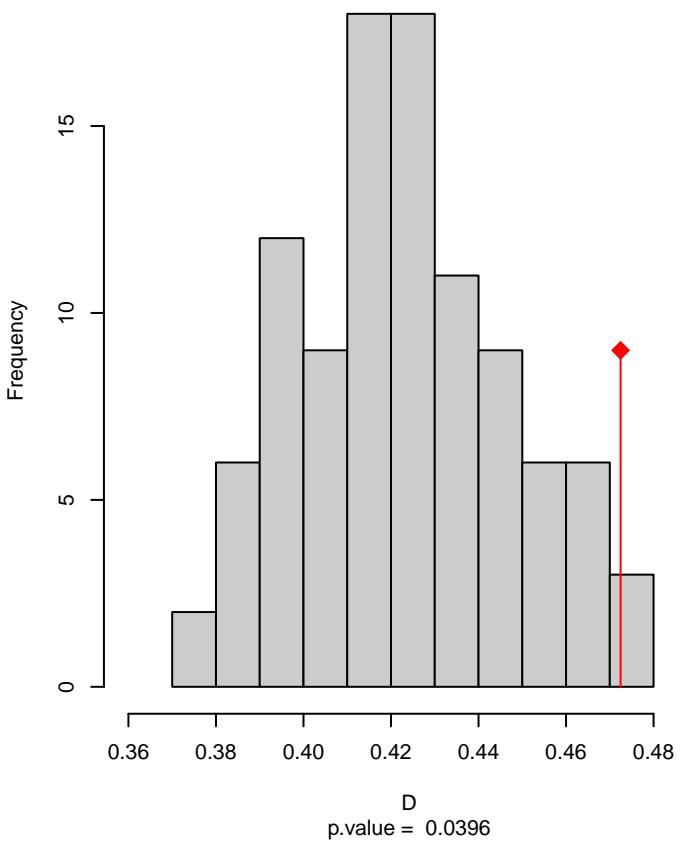
Similarity 1→2



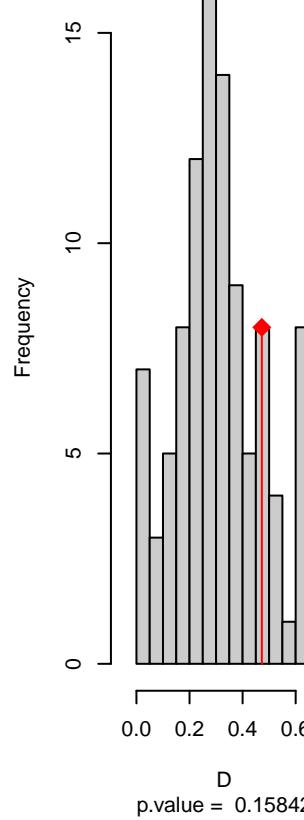
Hirundo_leucosoma seasonal overlap



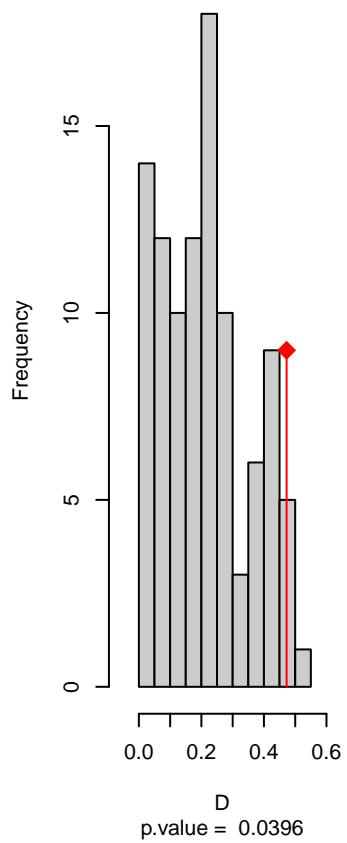
Equivalency



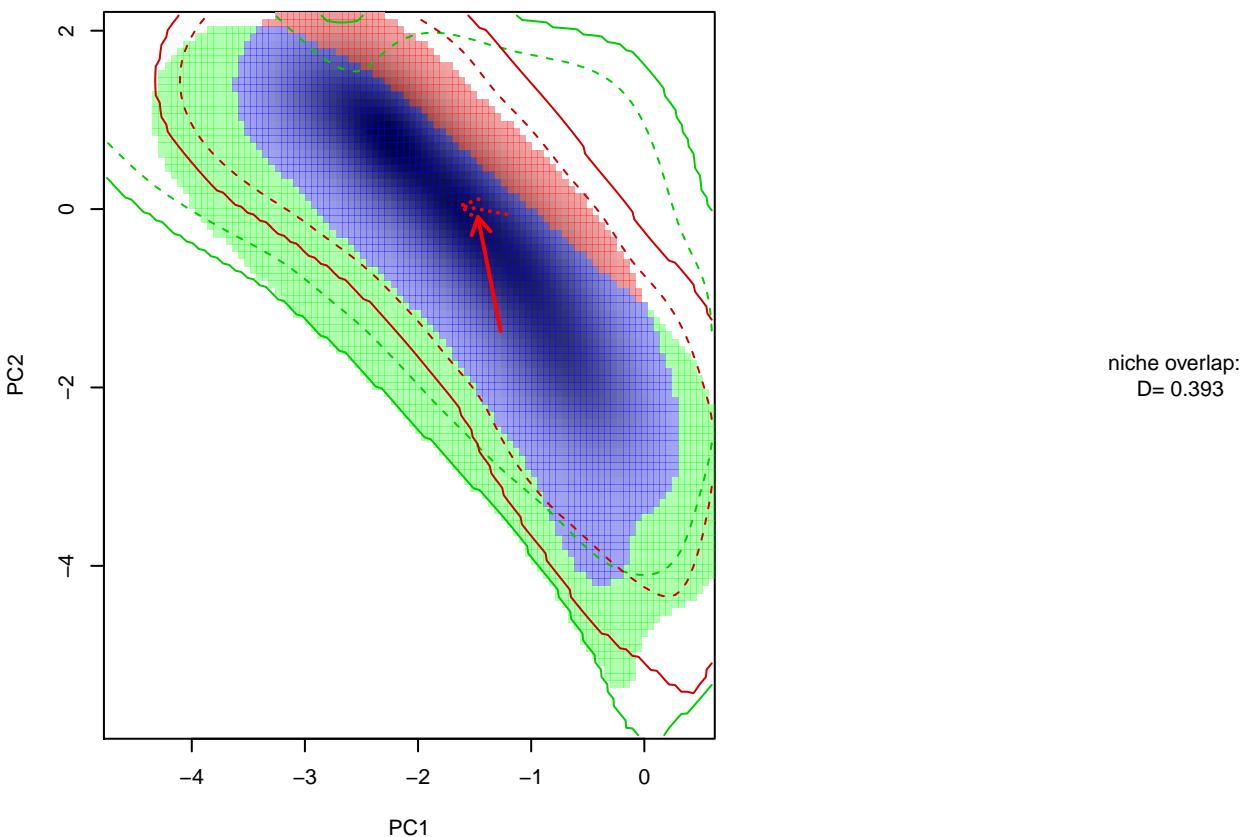
Similarity 2→1



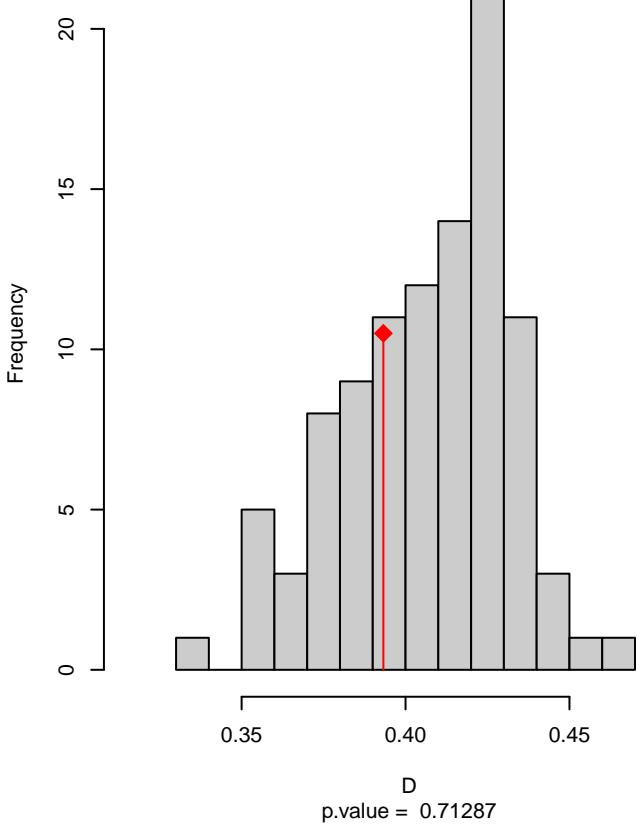
Similarity 1→2



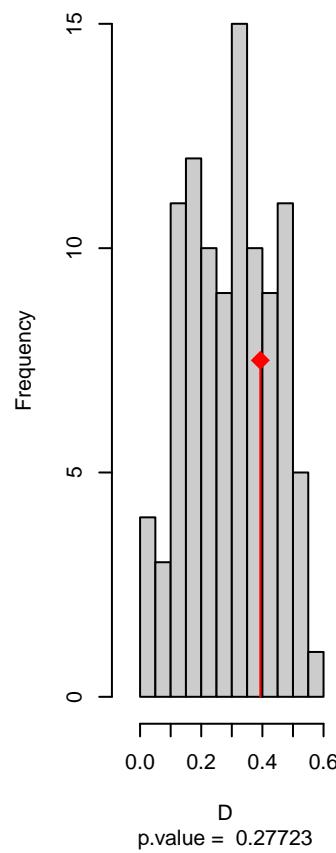
Hirundo_leucosoma seasonal overlap-hypo.br



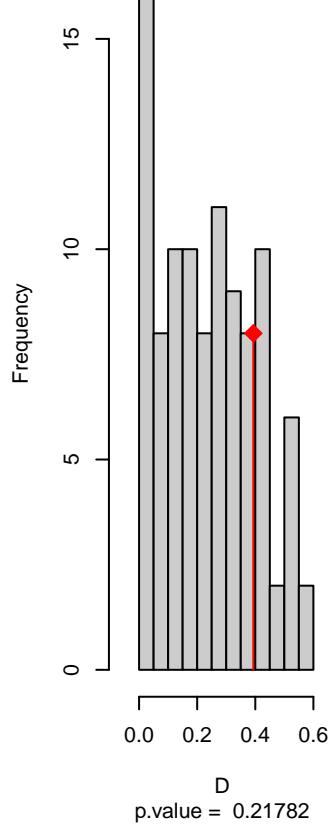
Equivalency



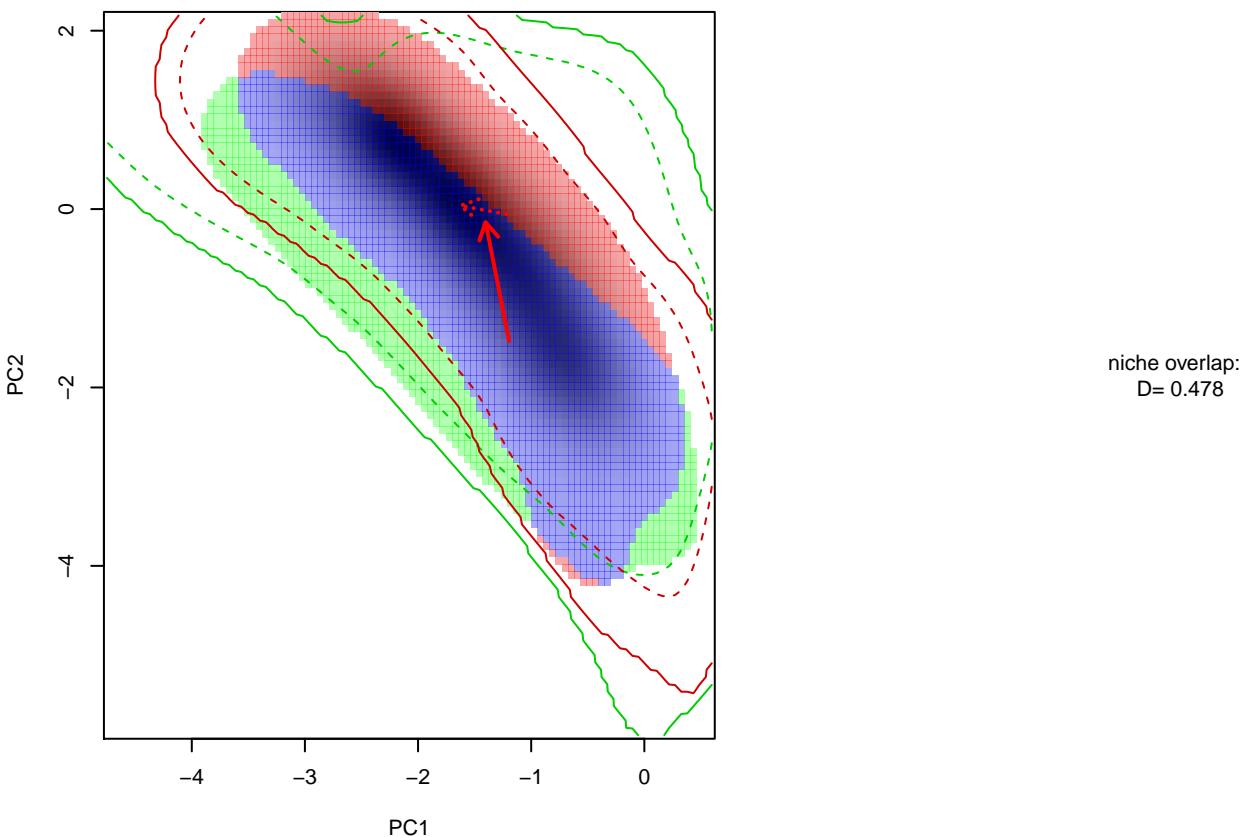
Similarity 2→1



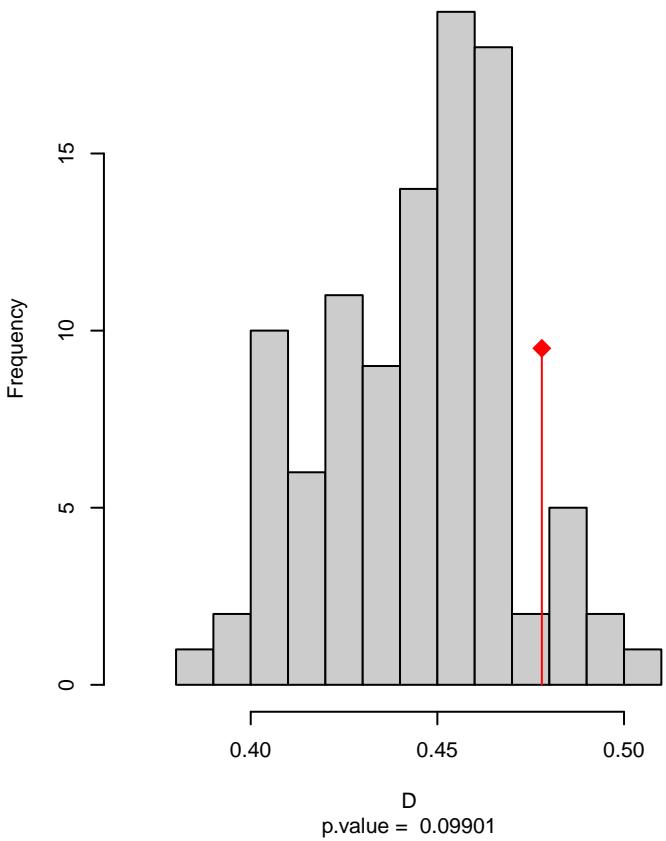
Similarity 1→2



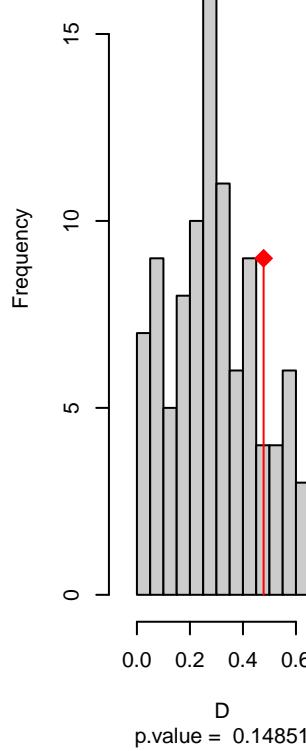
Hirundo_leucosoma seasonal overlap-hypo wi



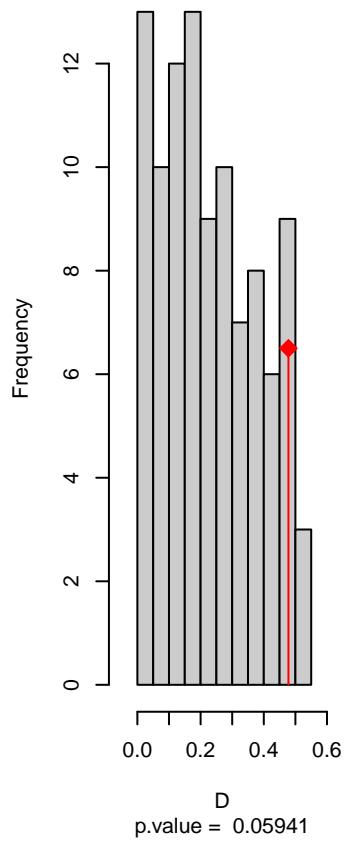
Equivalency



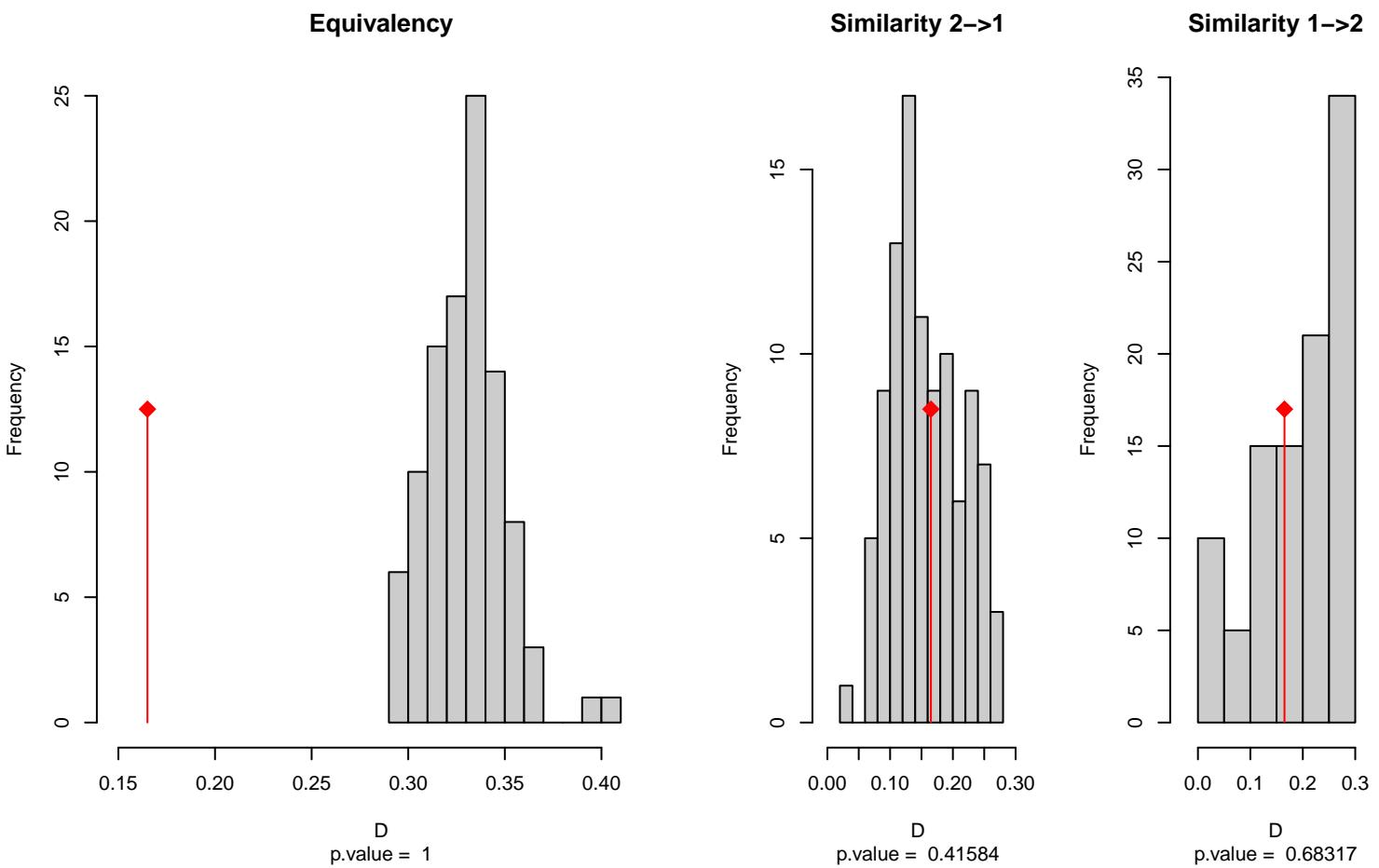
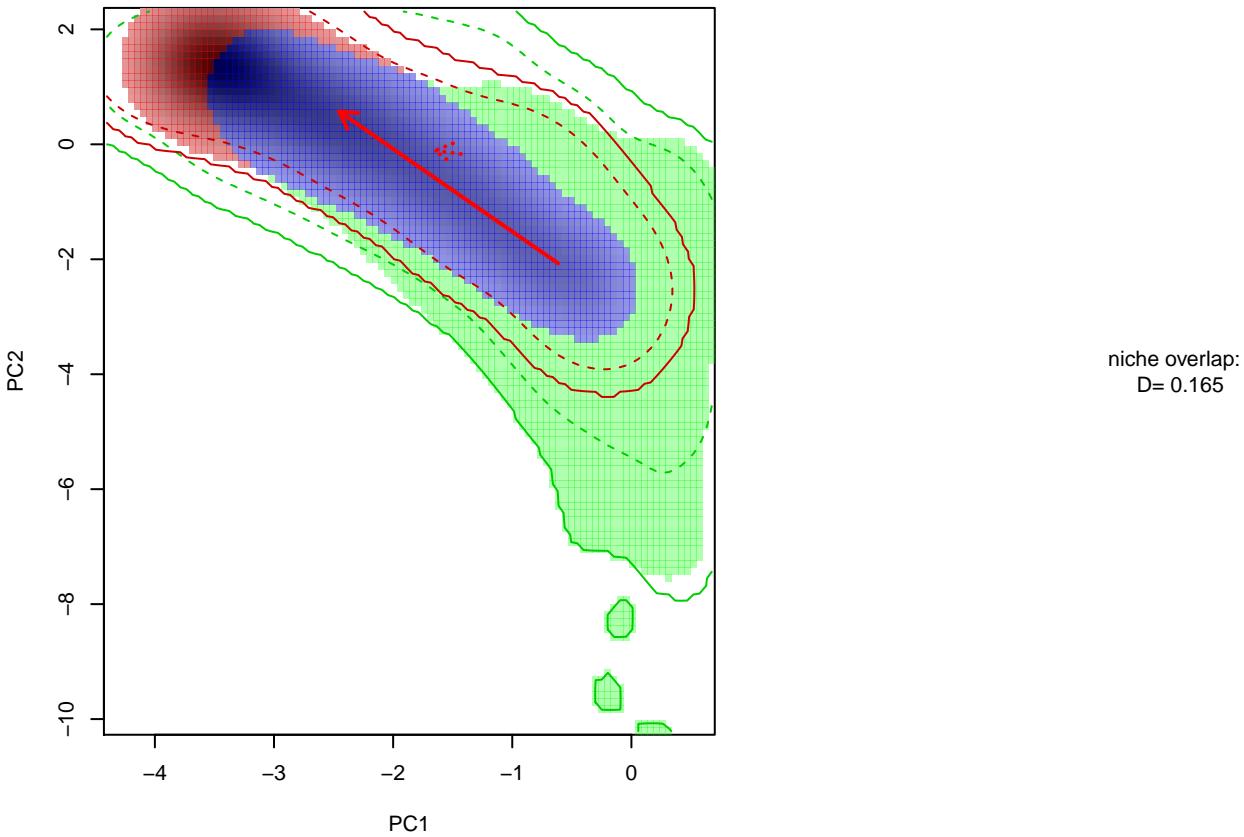
Similarity 2→1



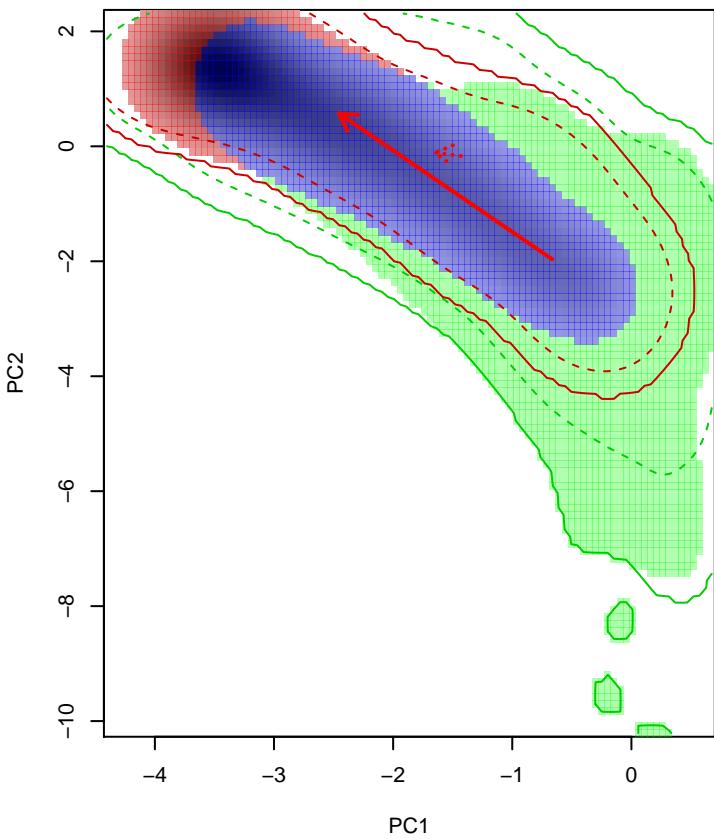
Similarity 1→2



Hirundo_lucida seasonal overlap

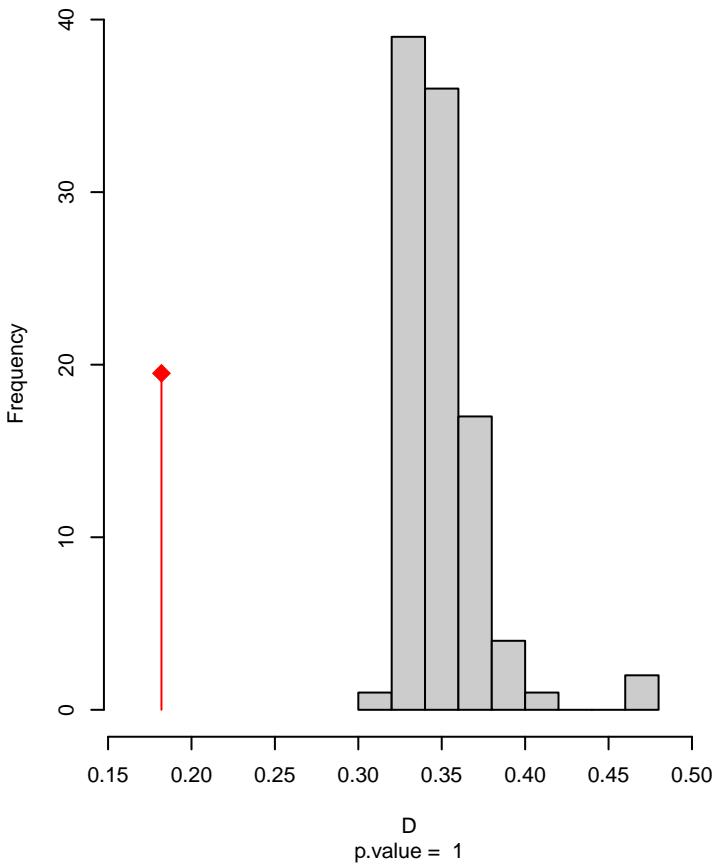


Hirundo_lucida seasonal overlap-hypo.br

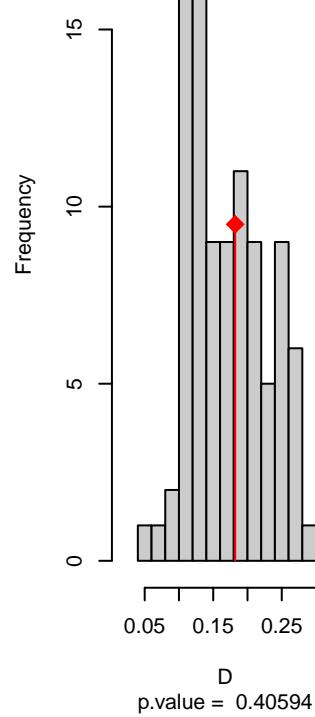


niche overlap:
D = 0.182

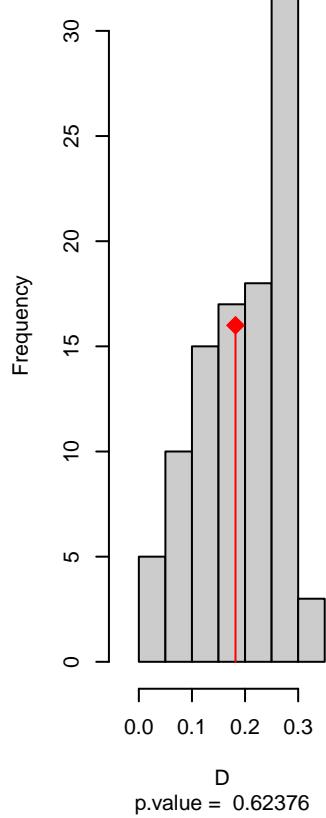
Equivalency



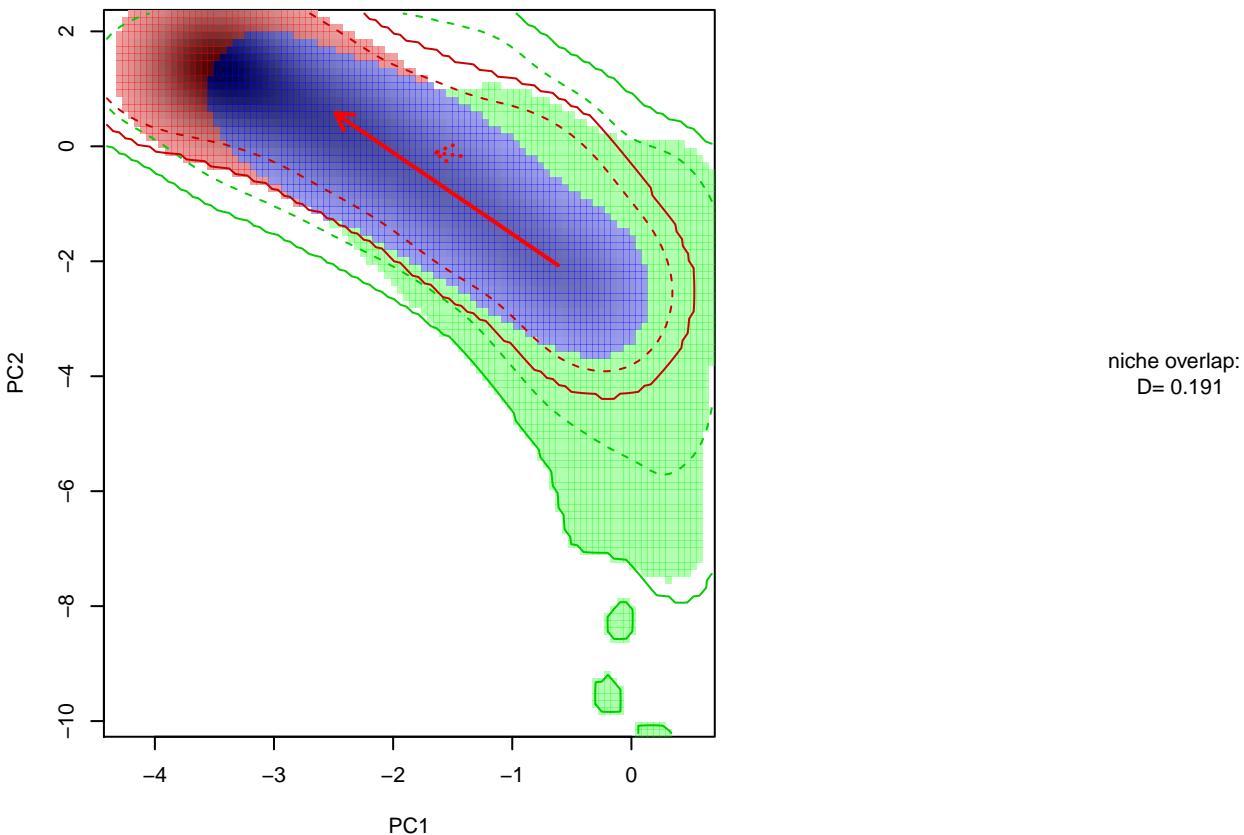
Similarity 2→1



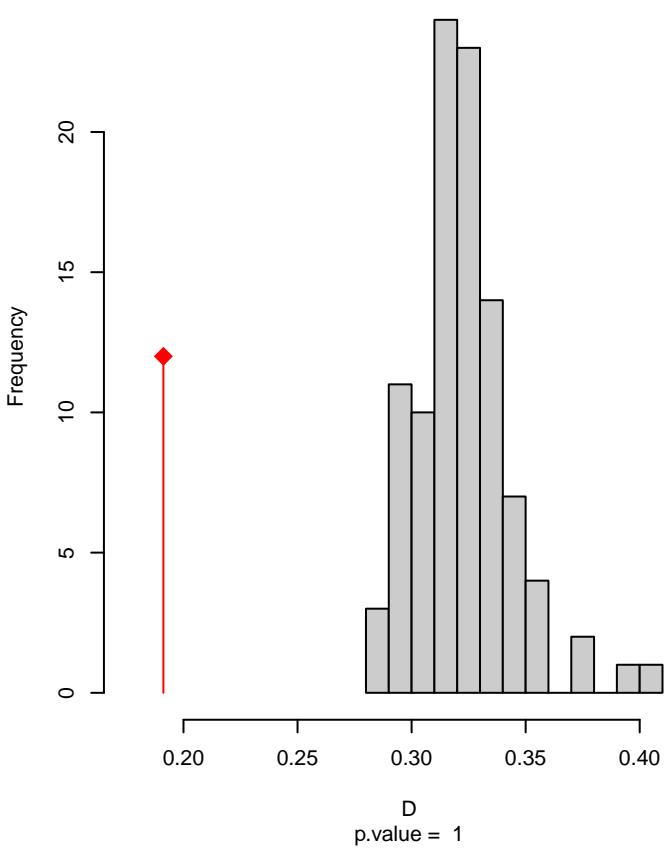
Similarity 1→2



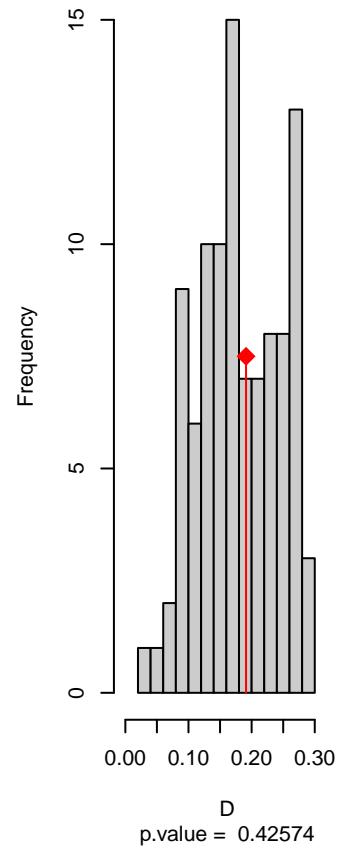
Hirundo_lucida seasonal overlap-hypo wi



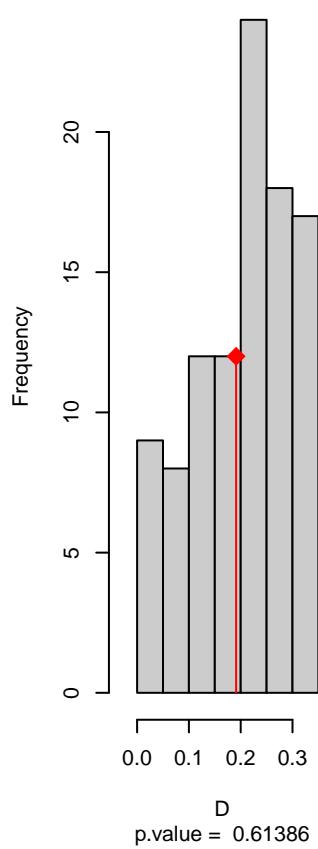
Equivalency



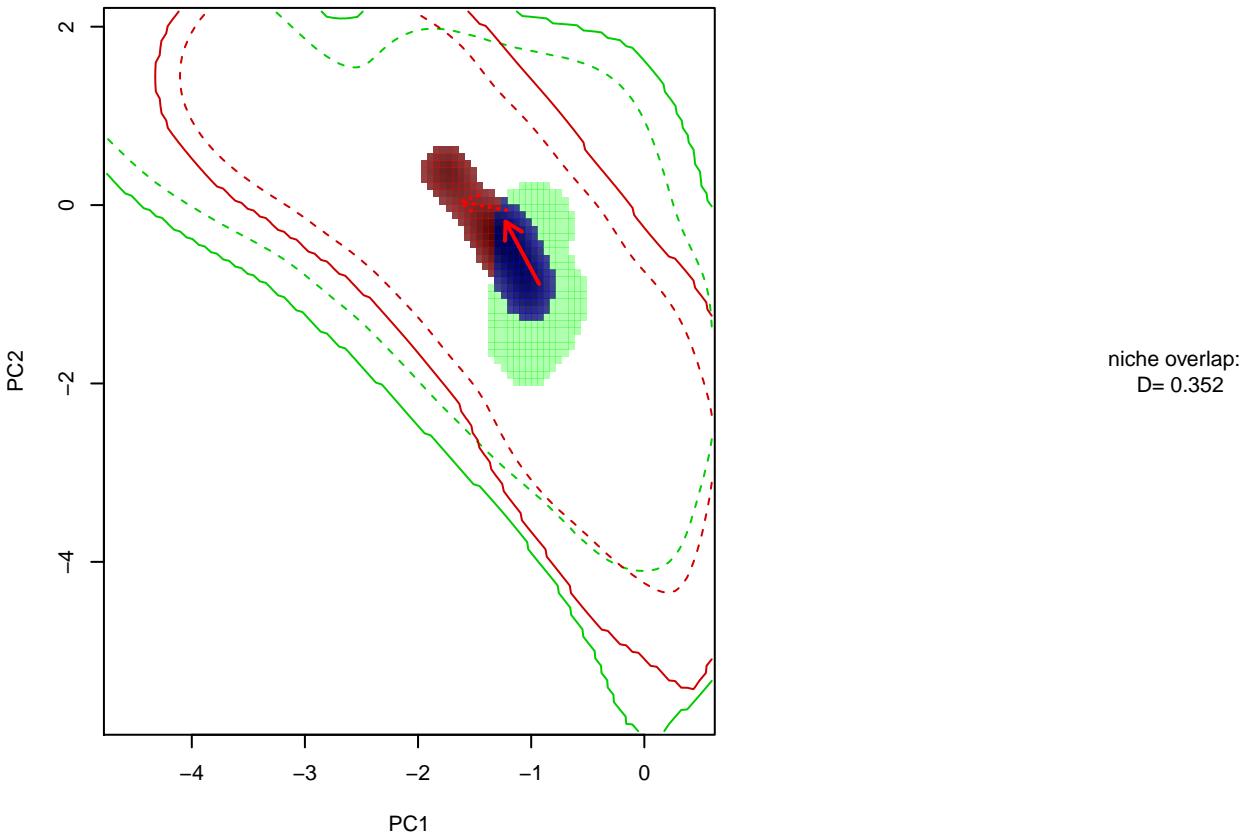
Similarity 2→1



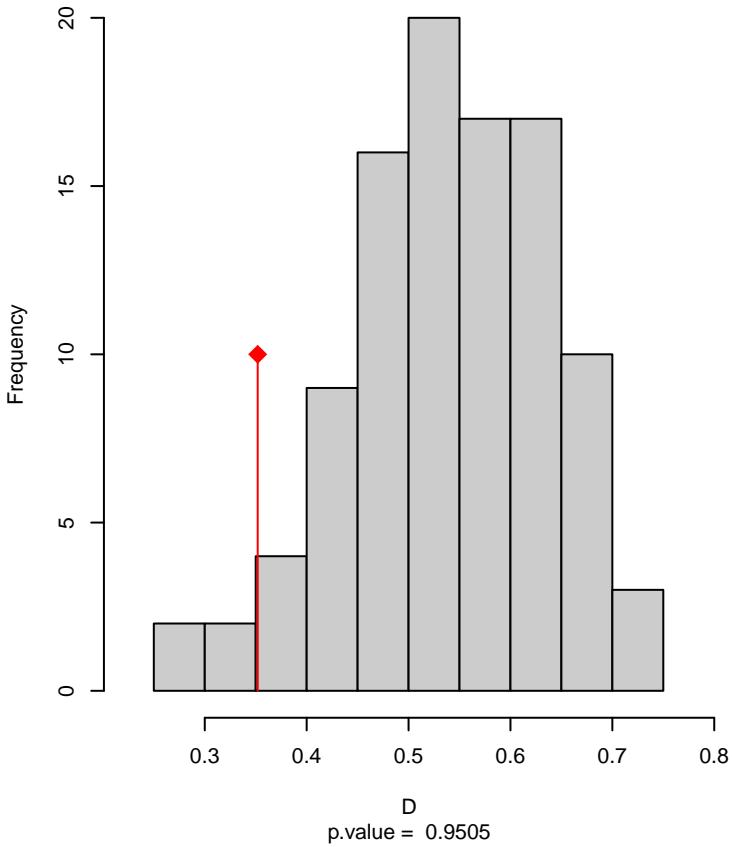
Similarity 1→2



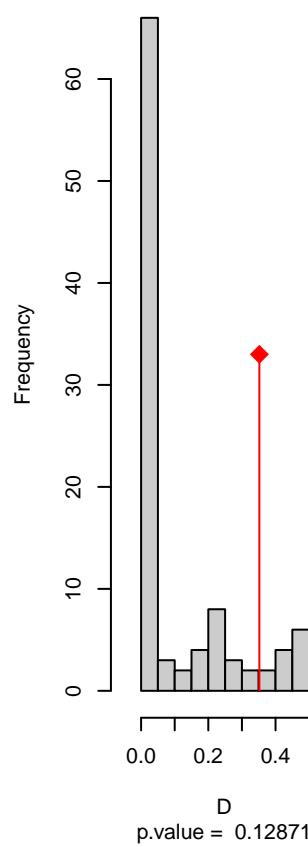
Hirundo_megaensis seasonal overlap



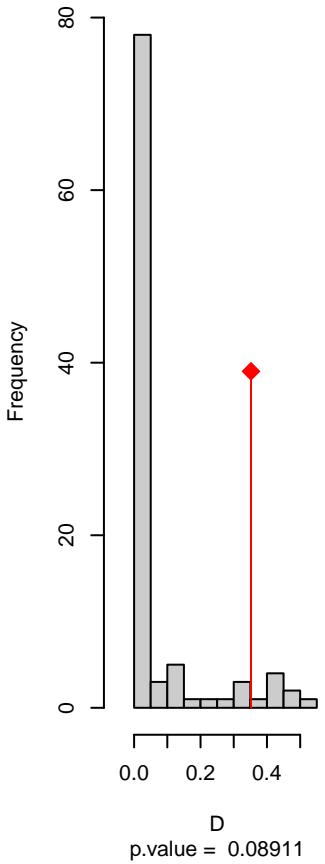
Equivalency



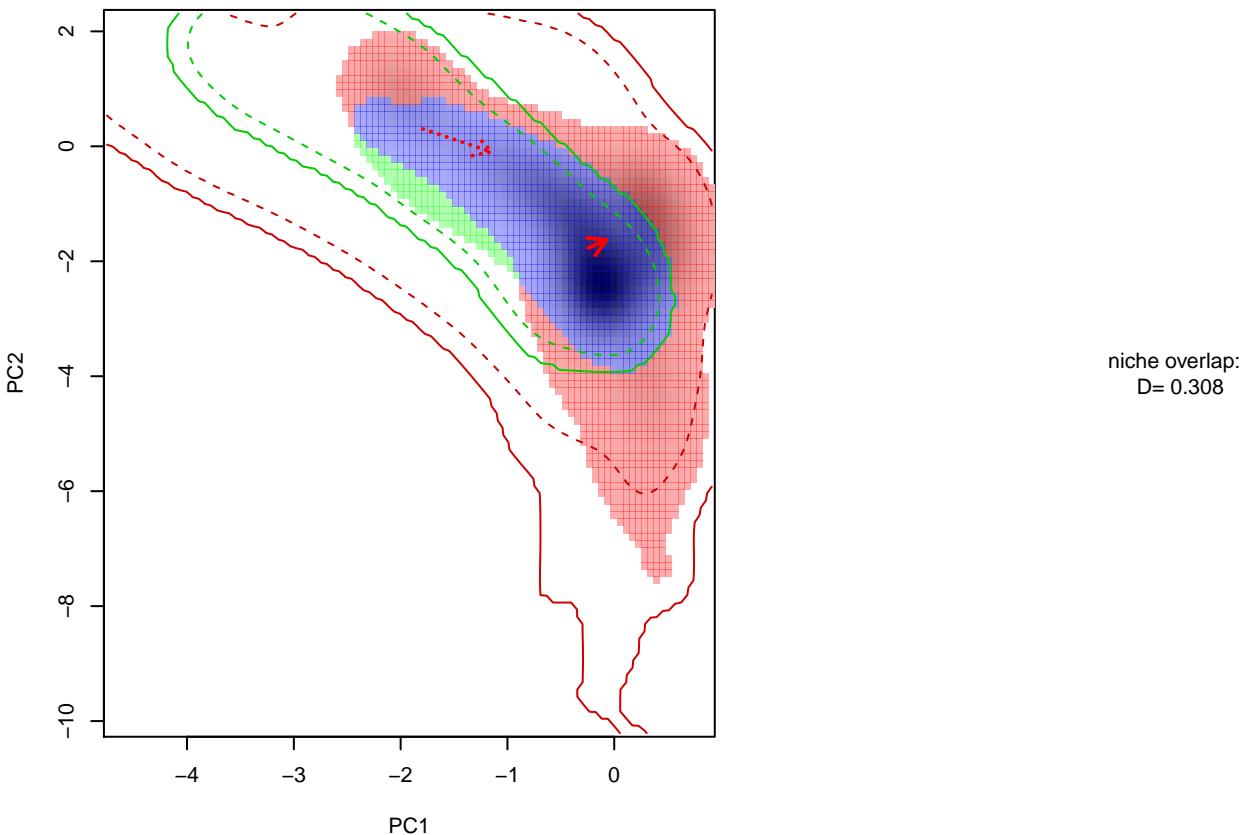
Similarity 2→1



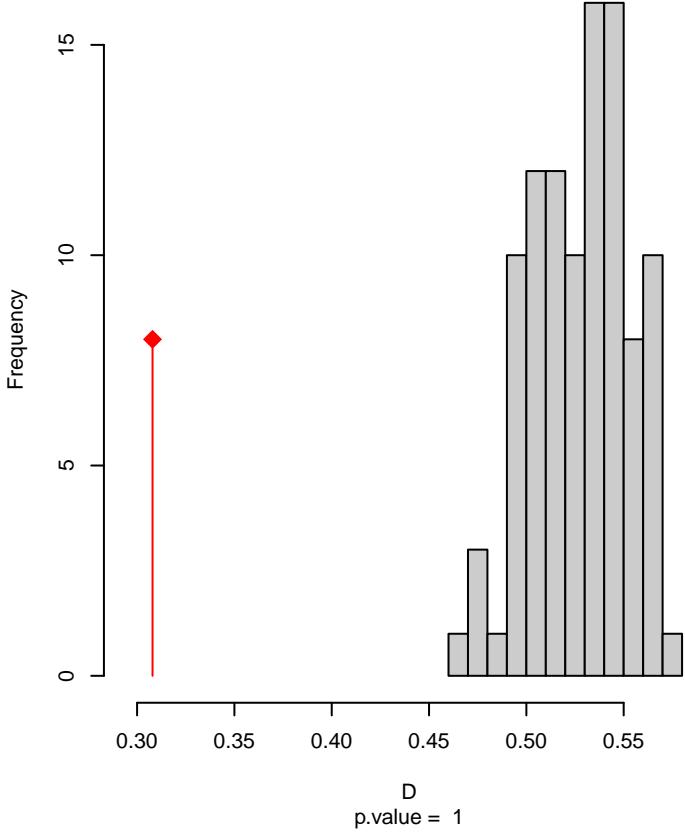
Similarity 1→2



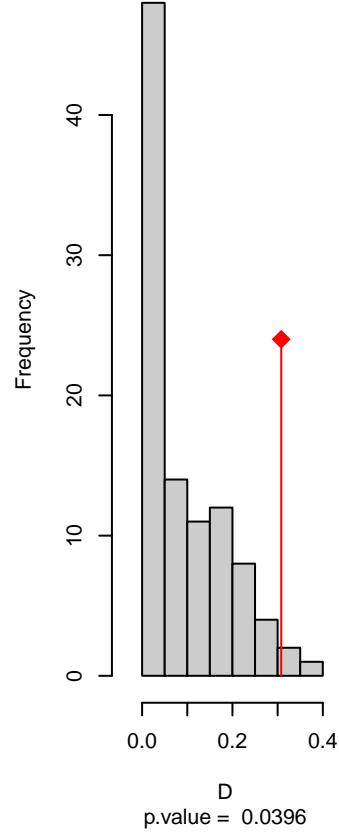
Hirundo_nigrita seasonal overlap



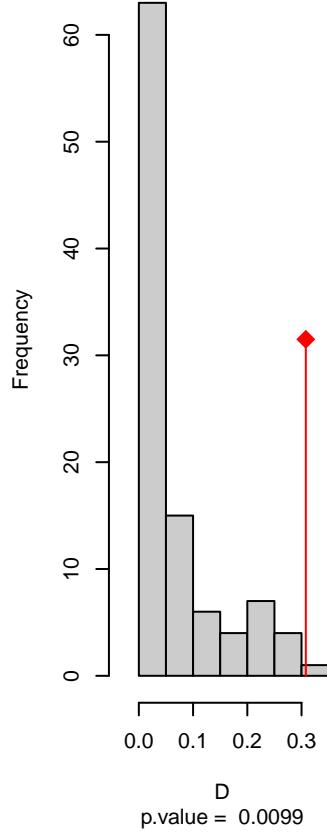
Equivalency



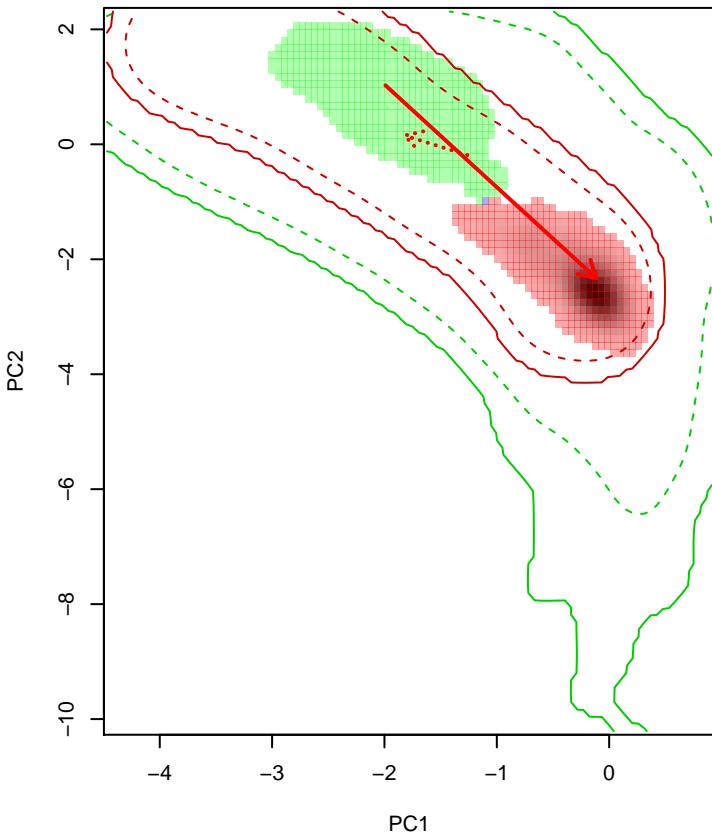
Similarity 2→1



Similarity 1→2

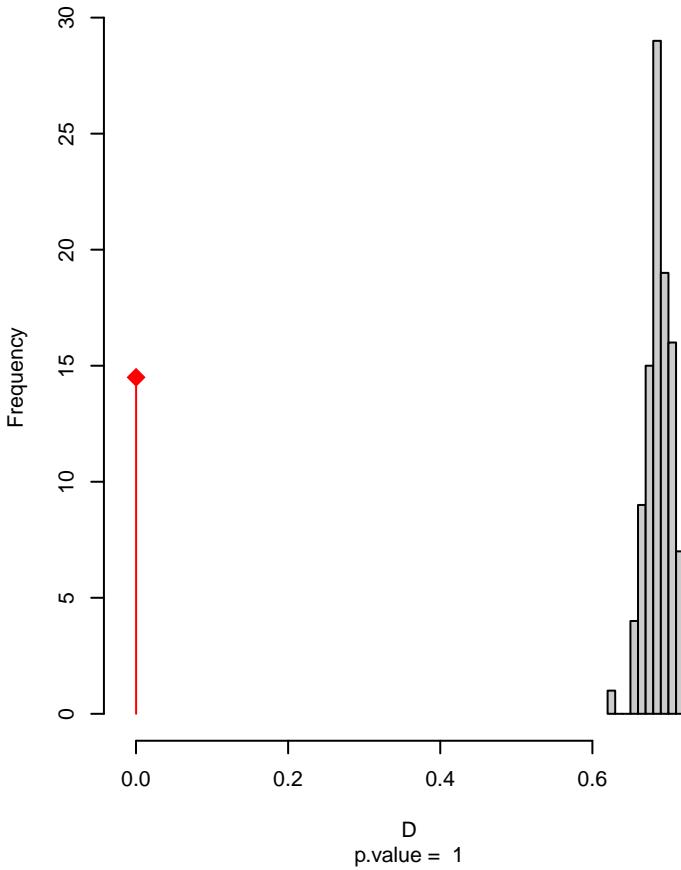


Hirundo_nigrorufa seasonal overlap

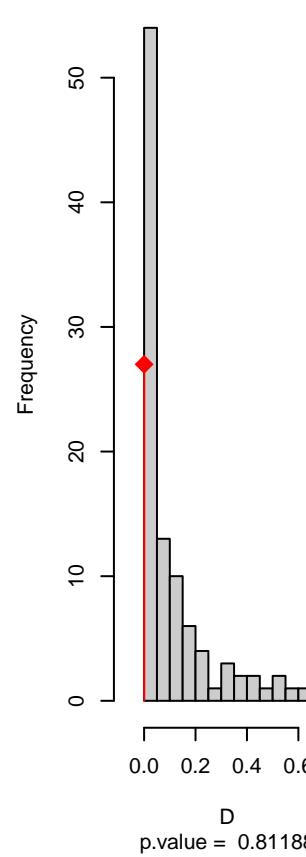


niche overlap:
 $D = 0$

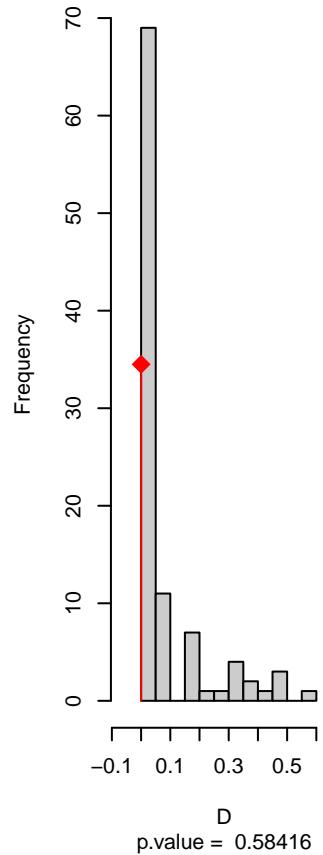
Equivalency



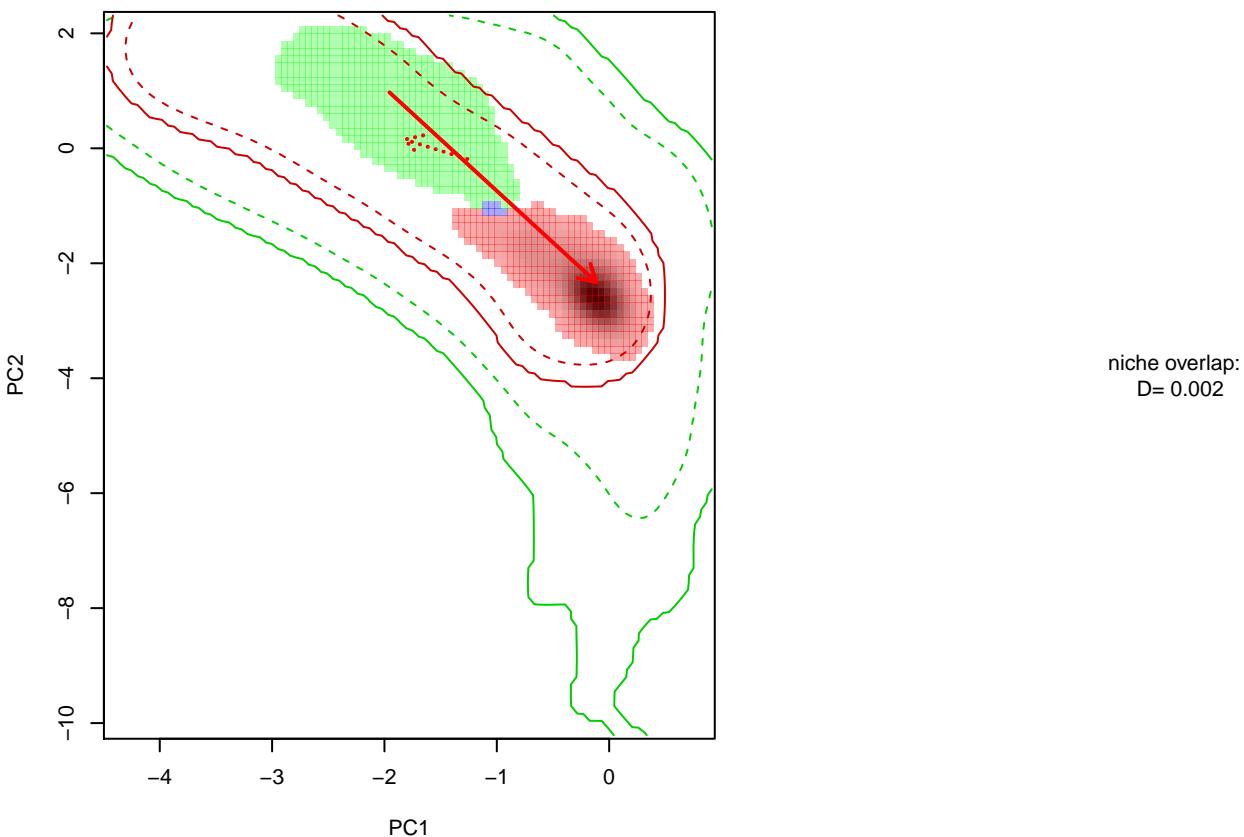
Similarity 2→1



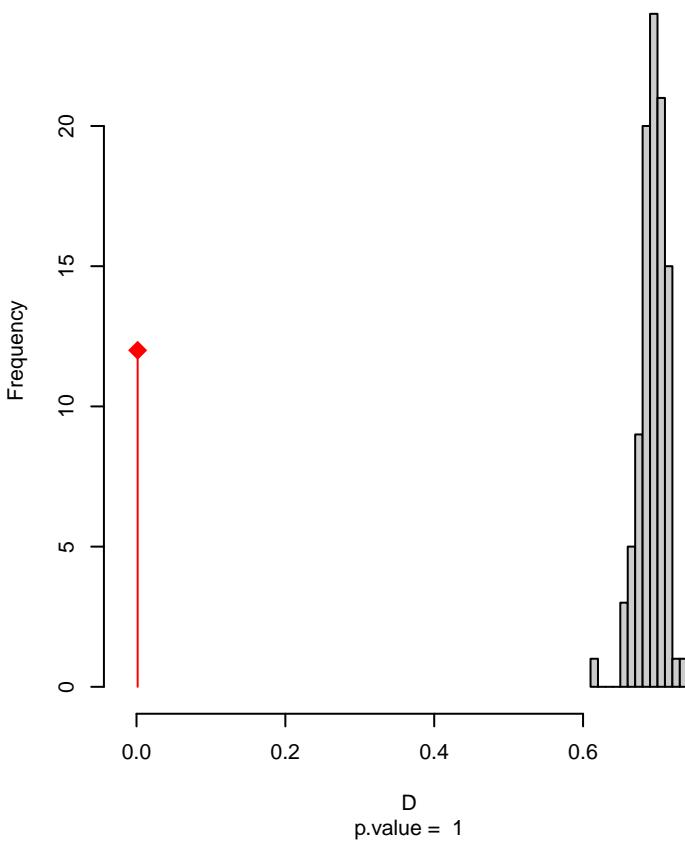
Similarity 1→2



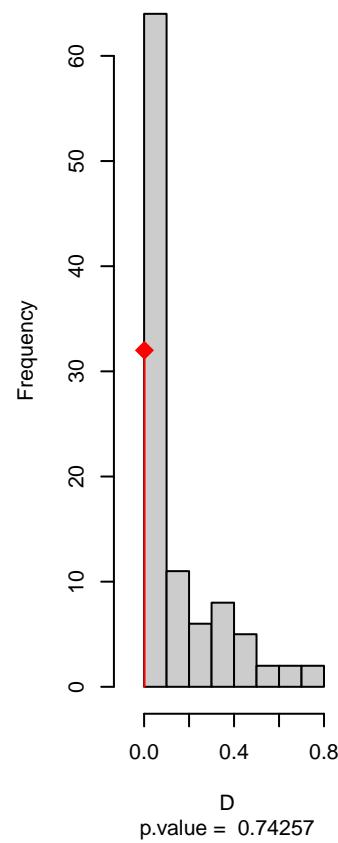
Hirundo_nigrorufa seasonal overlap–hypo.br



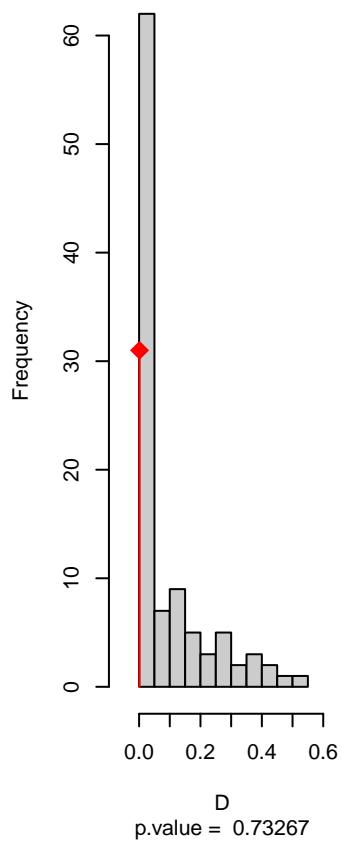
Equivalency



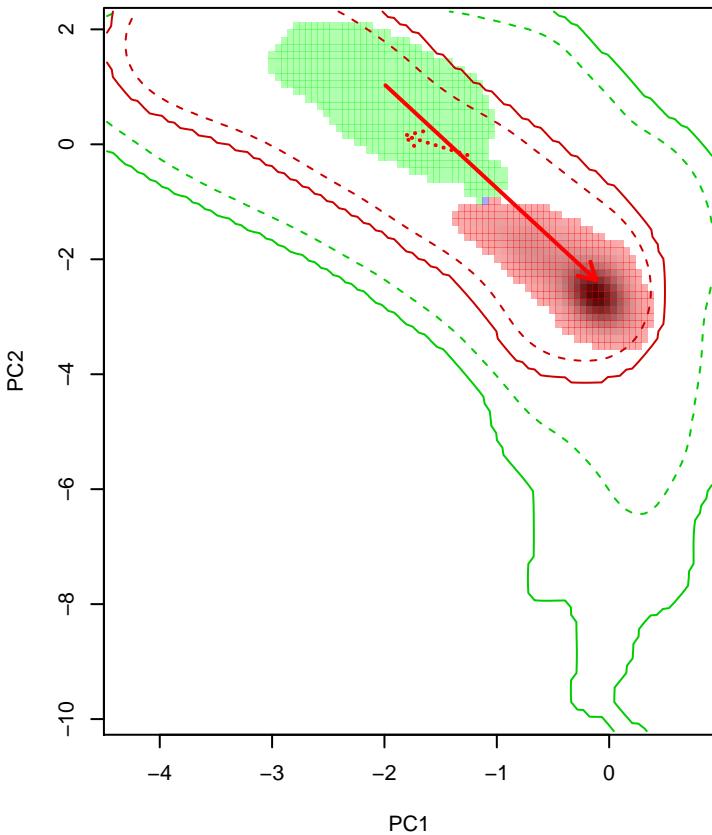
Similarity 2→1



Similarity 1→2

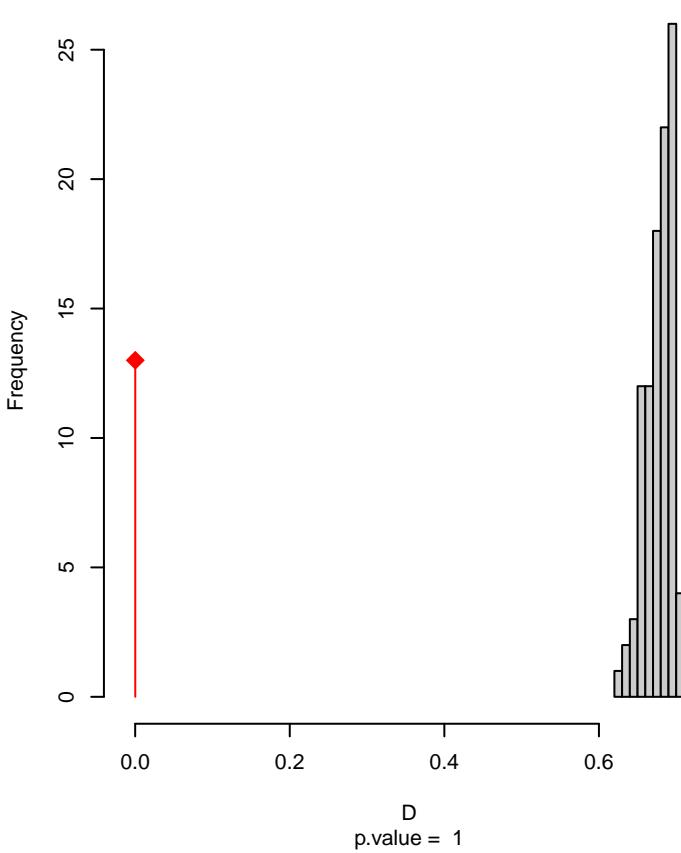


Hirundo_nigrorufa seasonal overlap–hypo wi

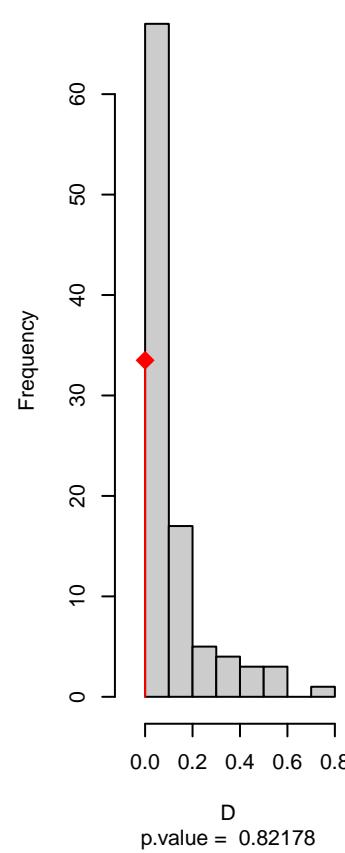


niche overlap:
 $D = 0$

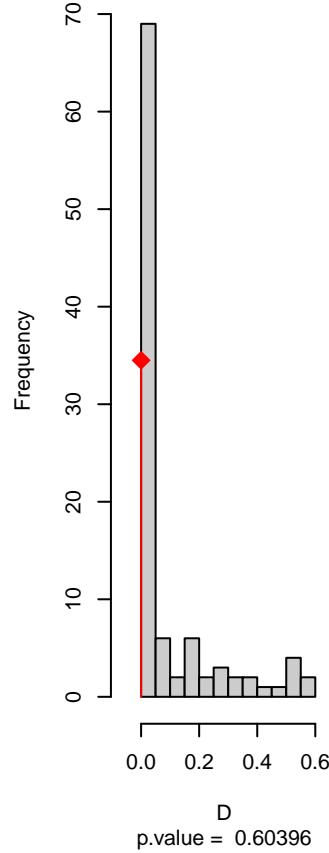
Equivalency



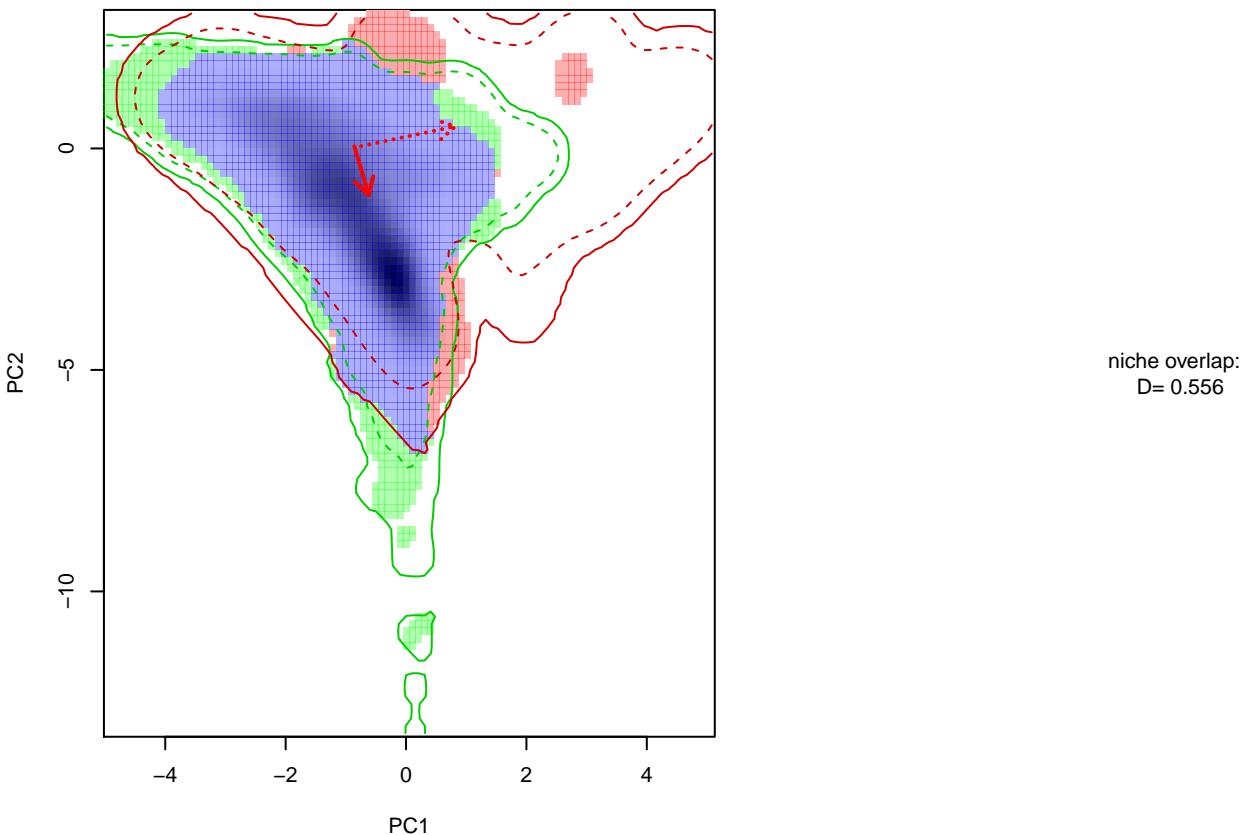
Similarity 2→1



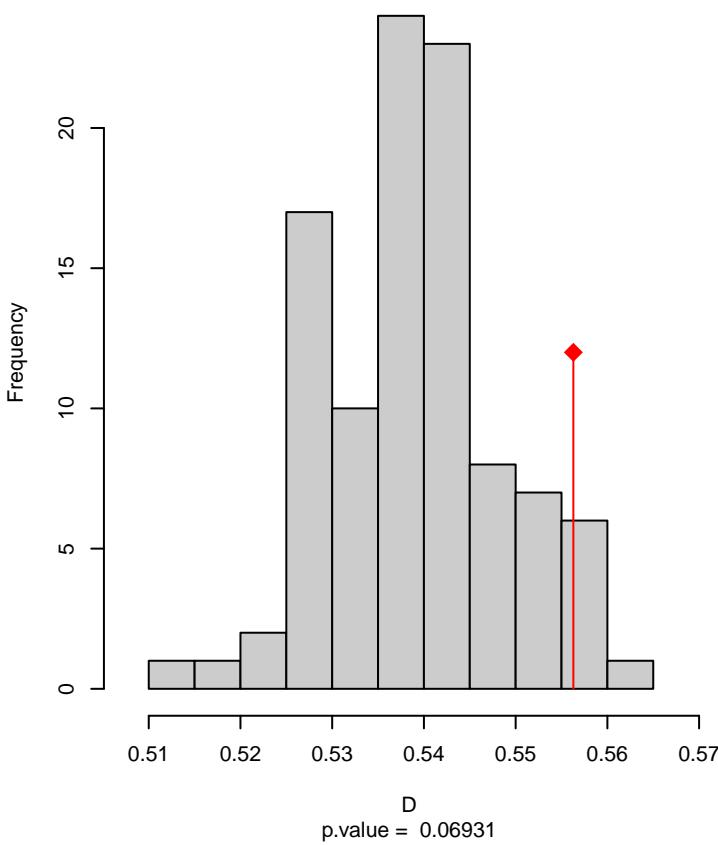
Similarity 1→2



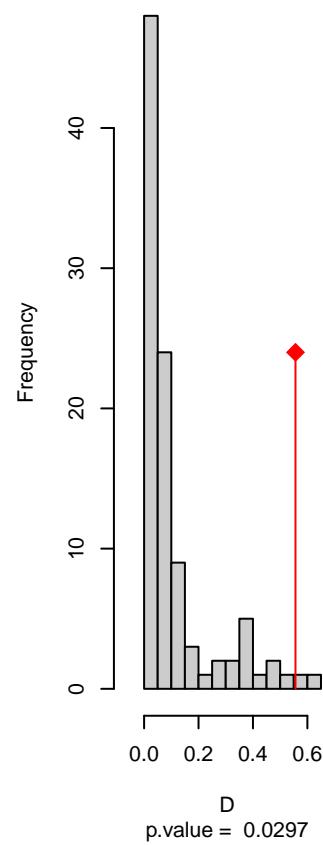
Hirundo_rustica seasonal overlap



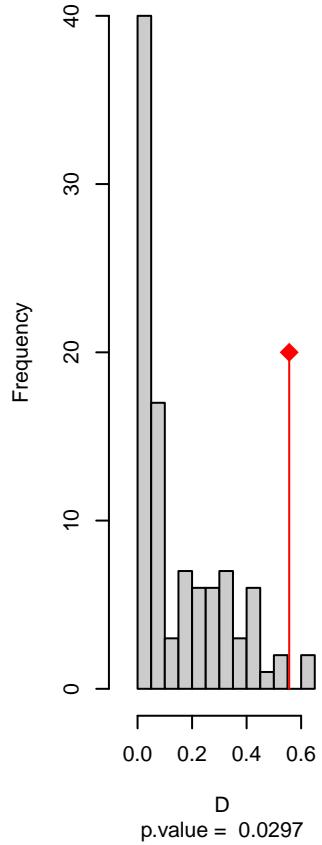
Equivalency



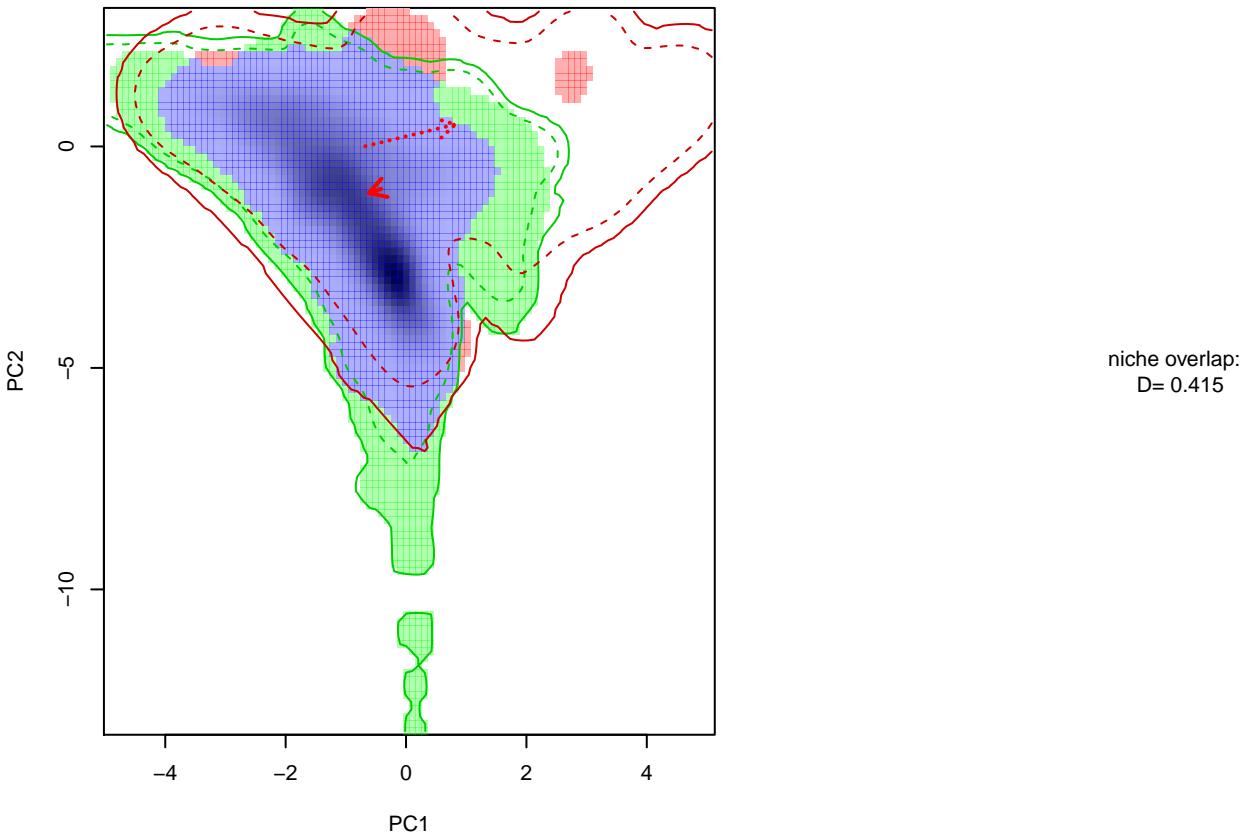
Similarity 2→1



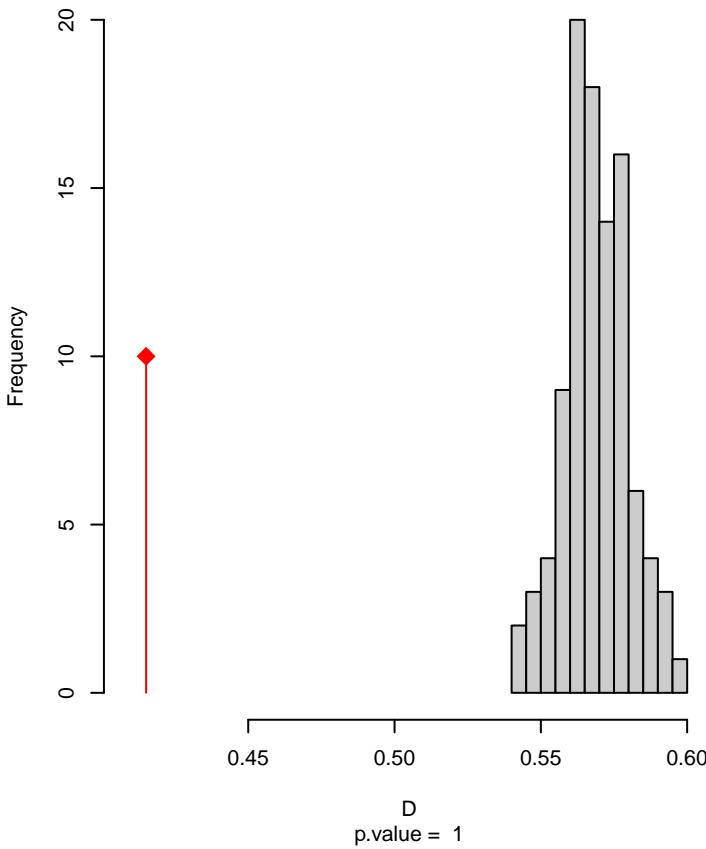
Similarity 1→2



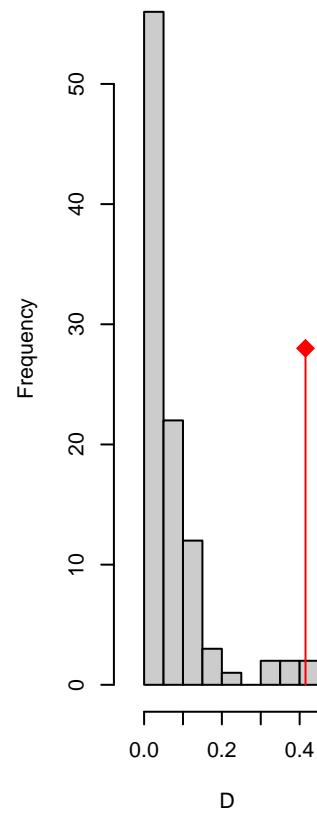
Hirundo_rustica seasonal overlap–hypo.br



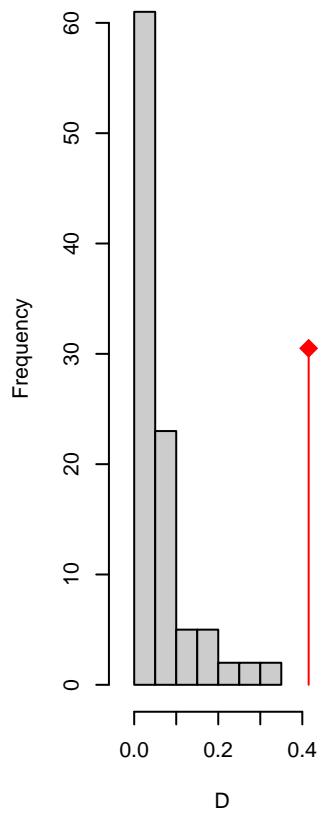
Equivalency



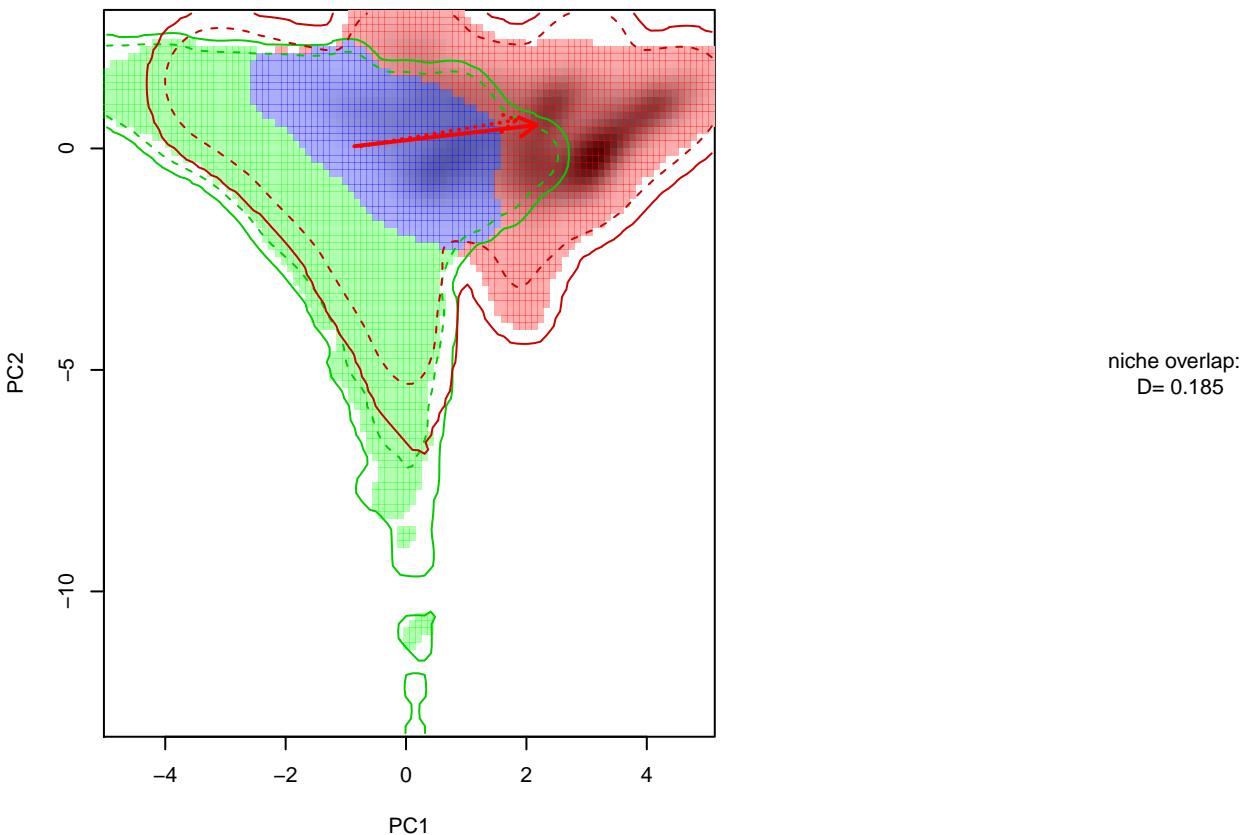
Similarity 2→1



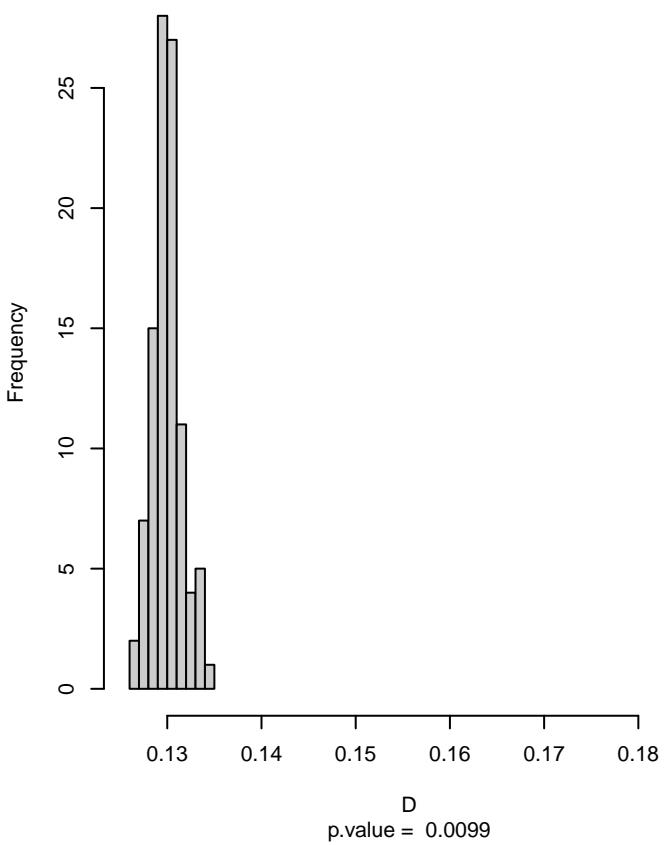
Similarity 1→2



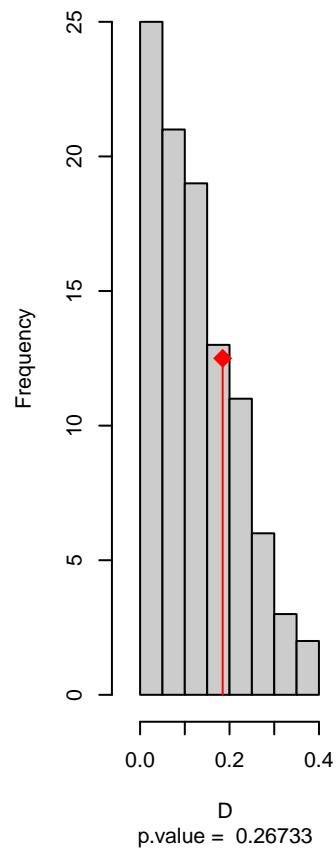
Hirundo_rustica seasonal overlap–hypo wi



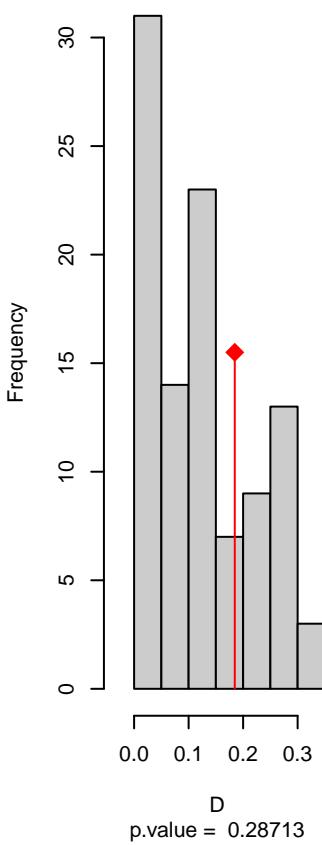
Equivalency



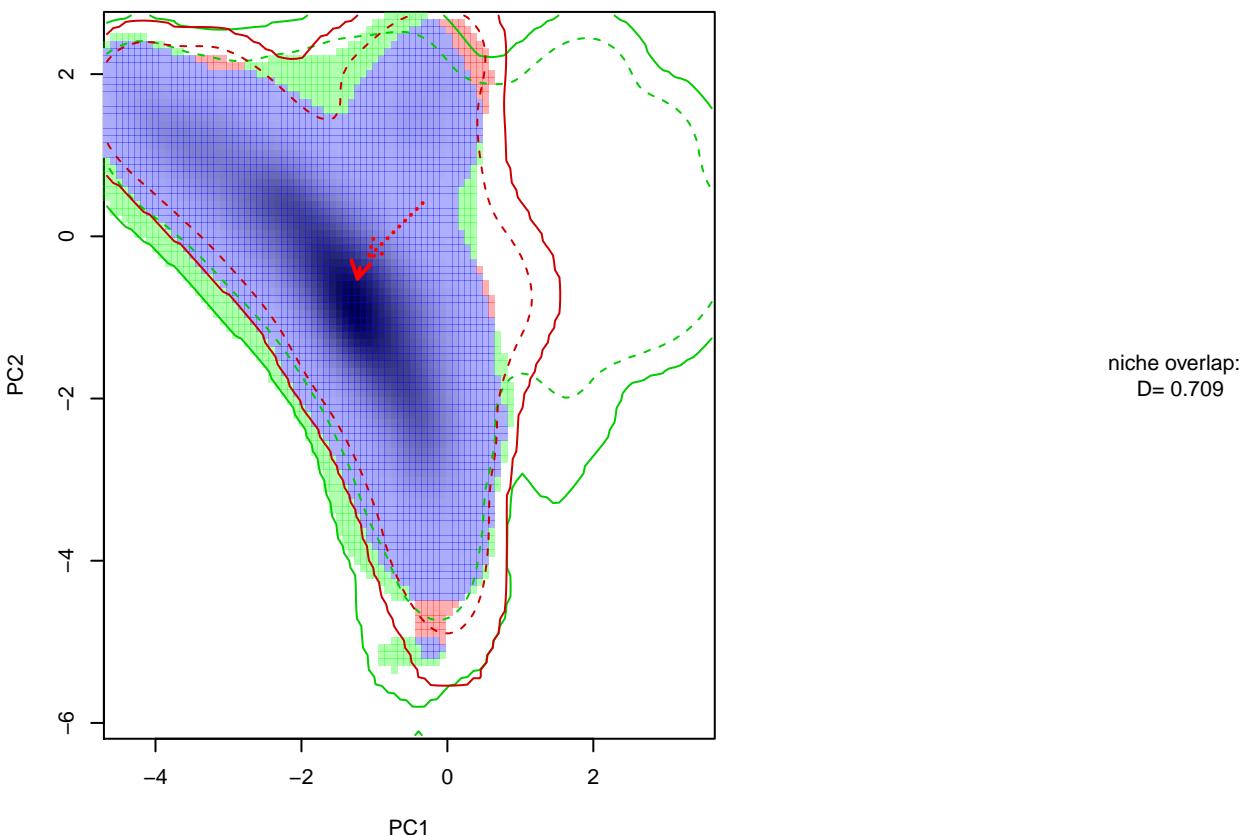
Similarity 2→1



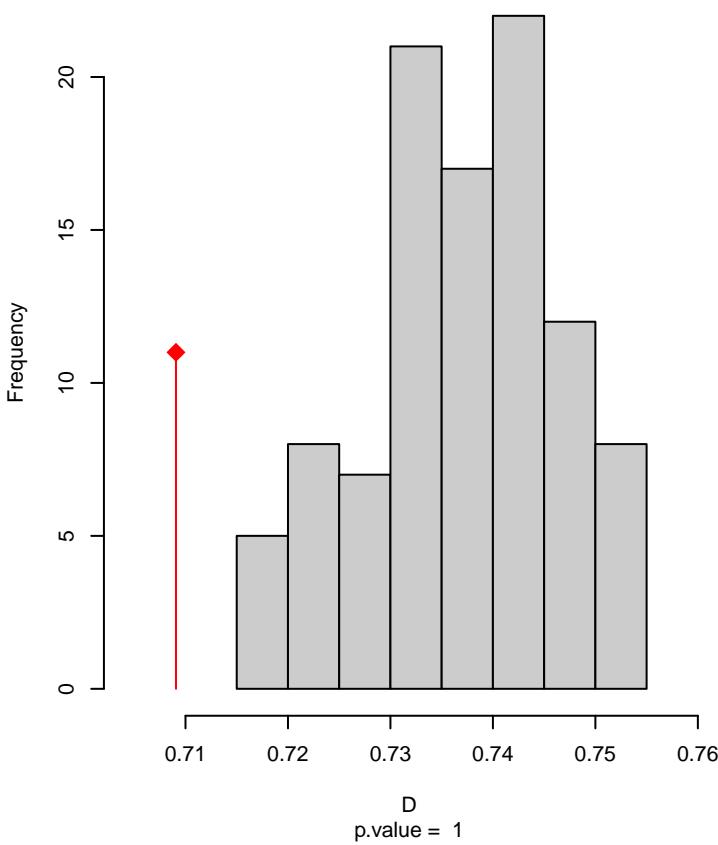
Similarity 1→2



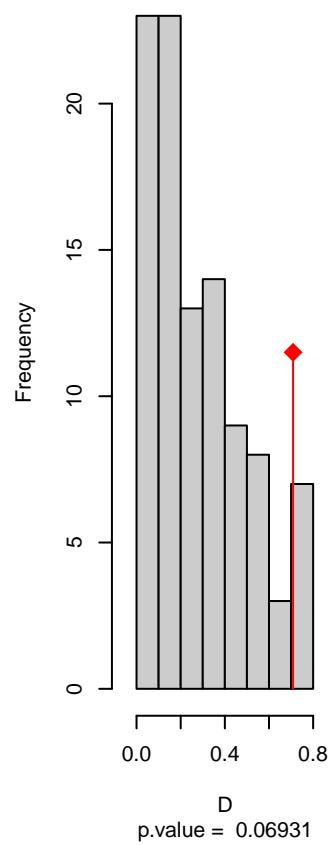
Hirundo_smithii seasonal overlap



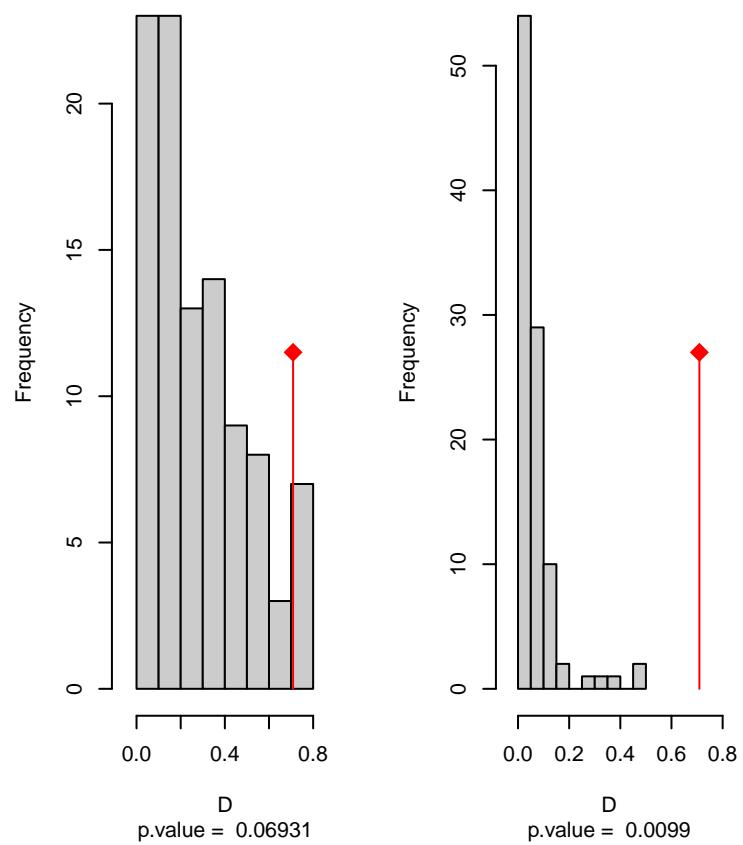
Equivalency



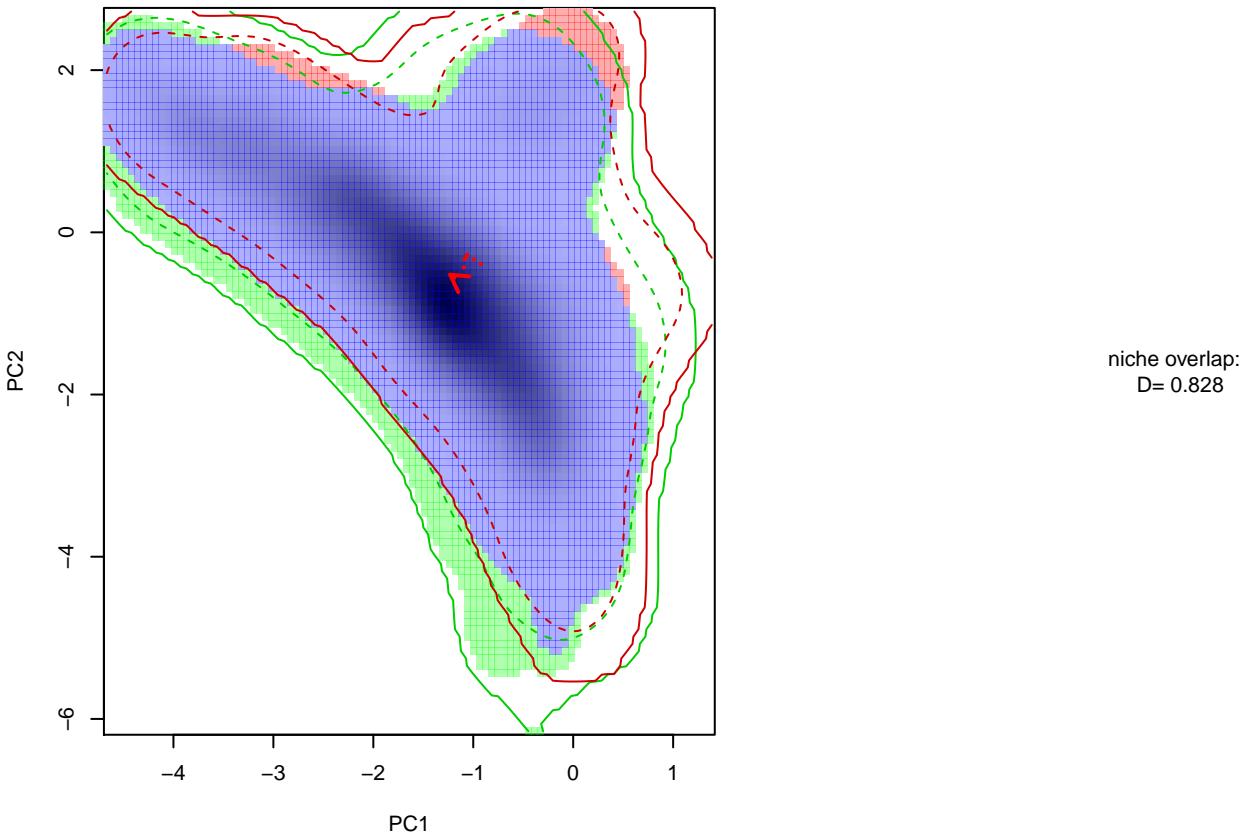
Similarity 2→1



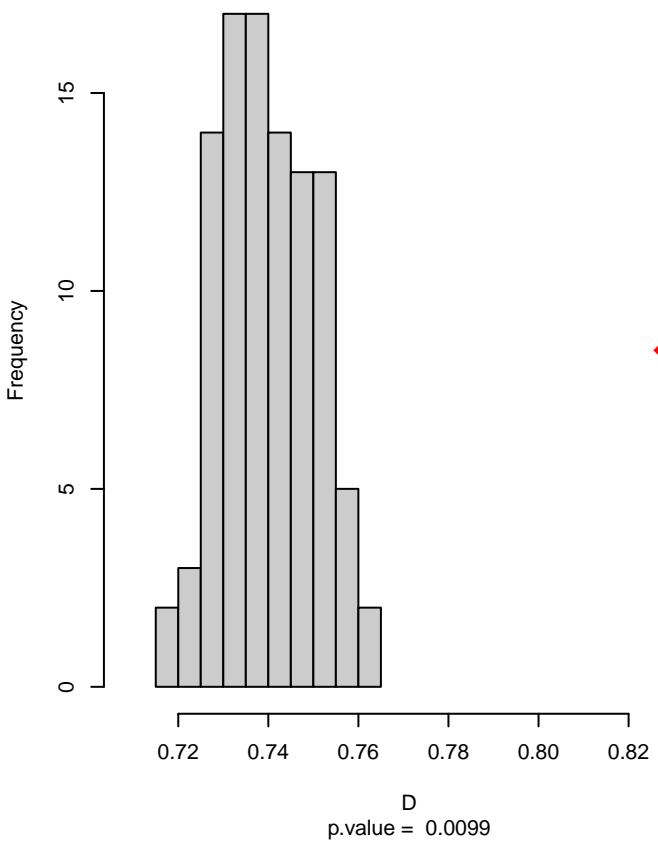
Similarity 1→2



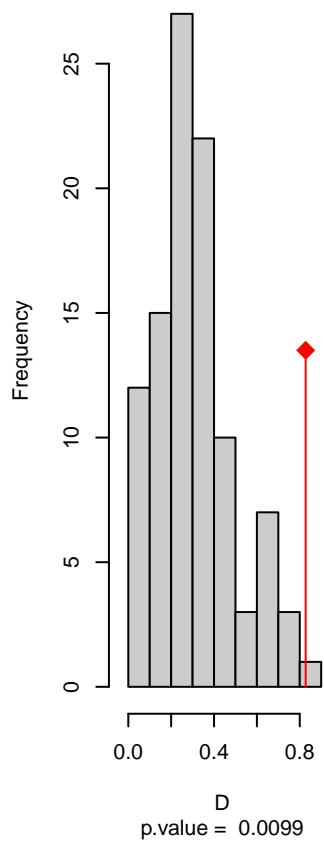
Hirundo_smithii seasonal overlap–hypo.br



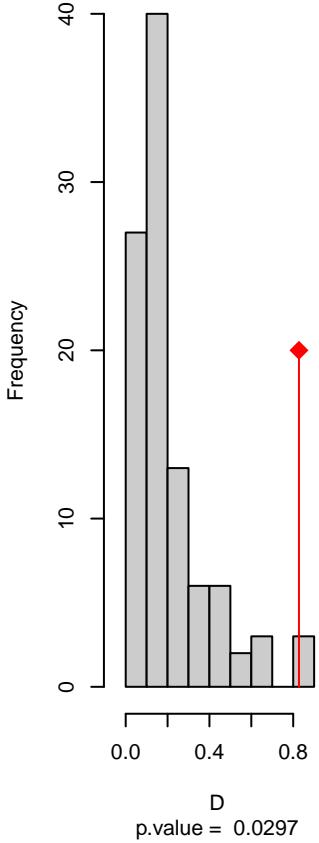
Equivalency



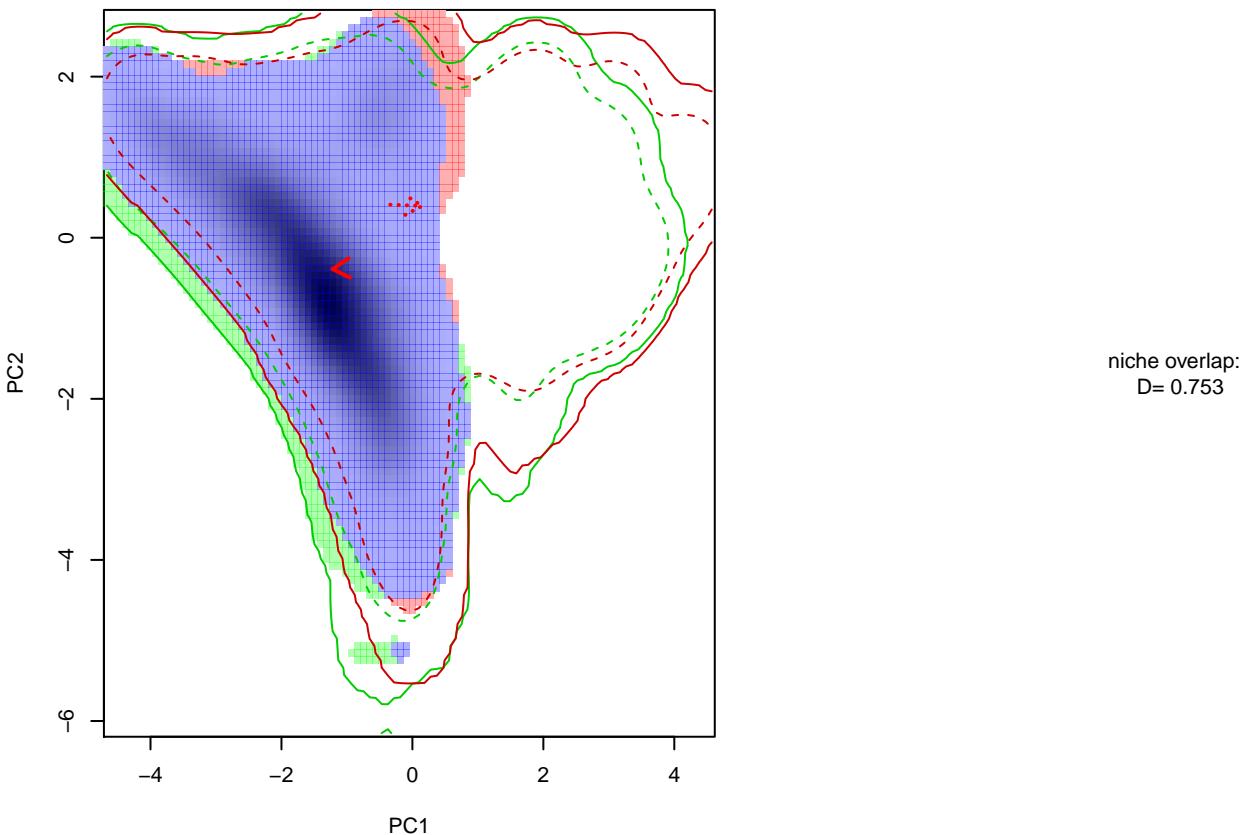
Similarity 2→1



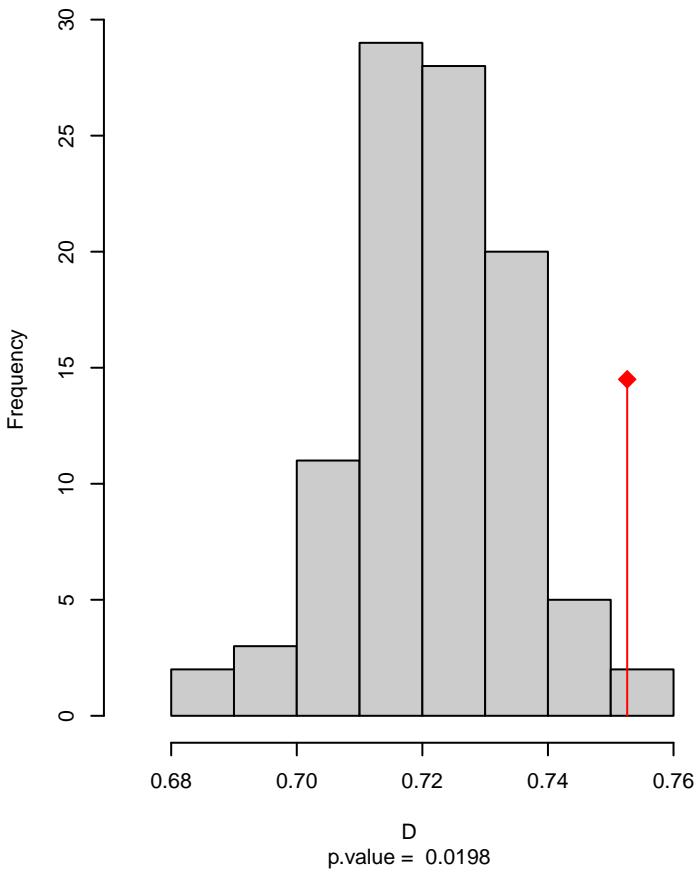
Similarity 1→2



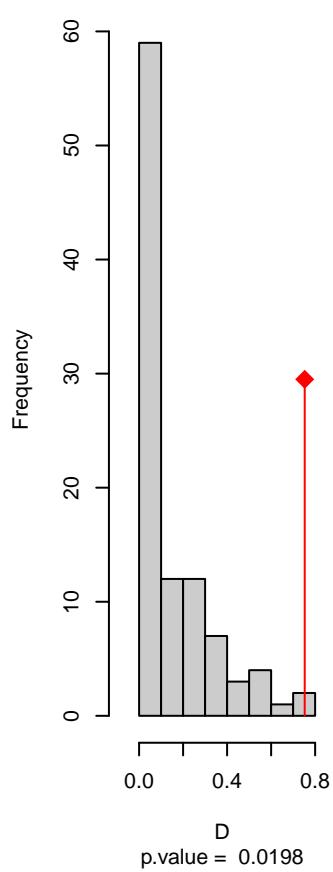
Hirundo_smithii seasonal overlap-hypo wi



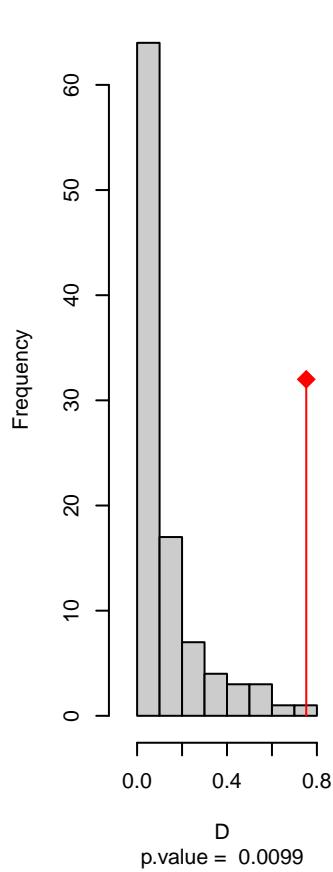
Equivalency



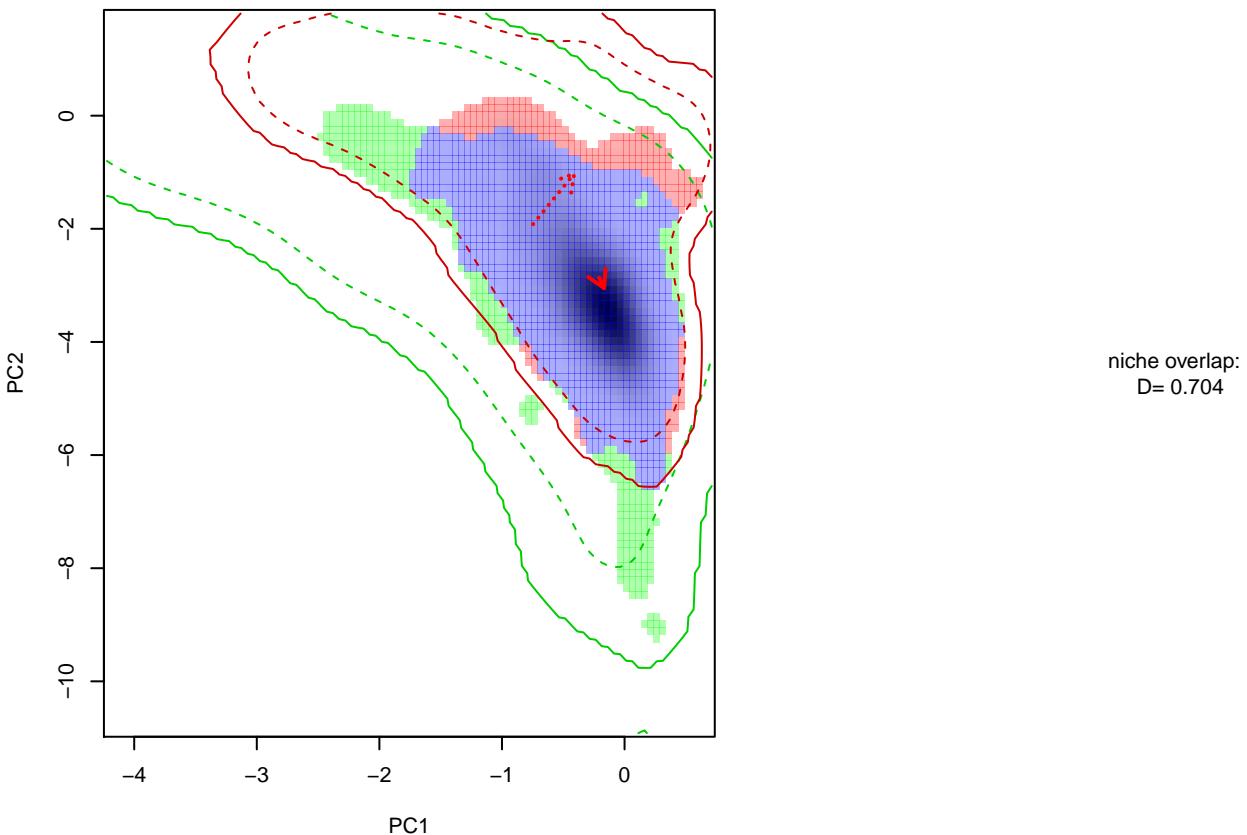
Similarity 2→1



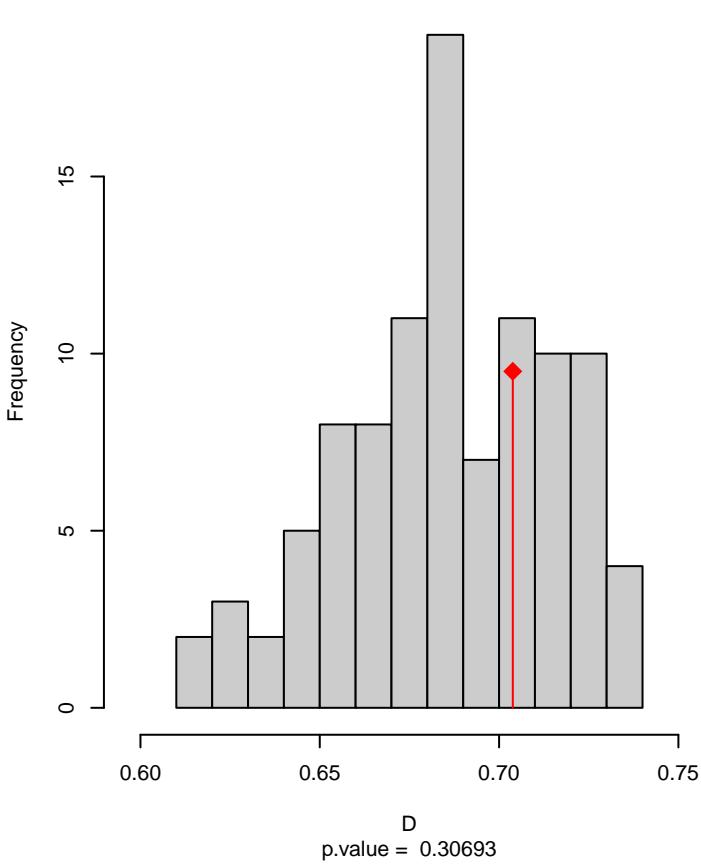
Similarity 1→2



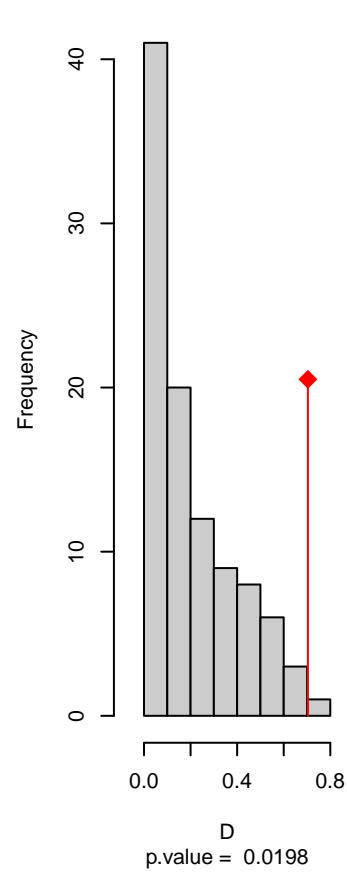
Hirundo_tahitica seasonal overlap



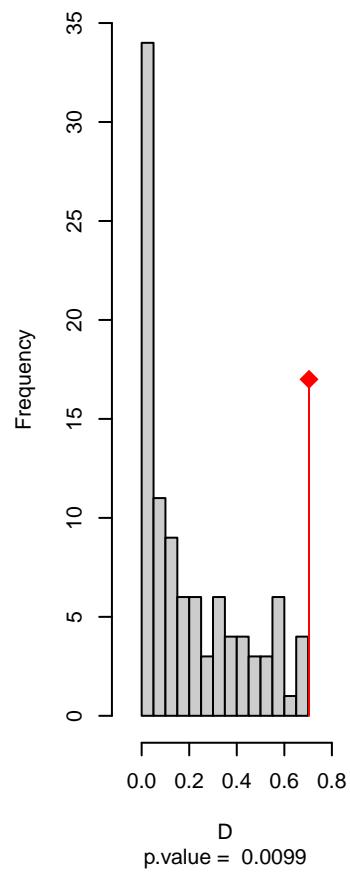
Equivalency



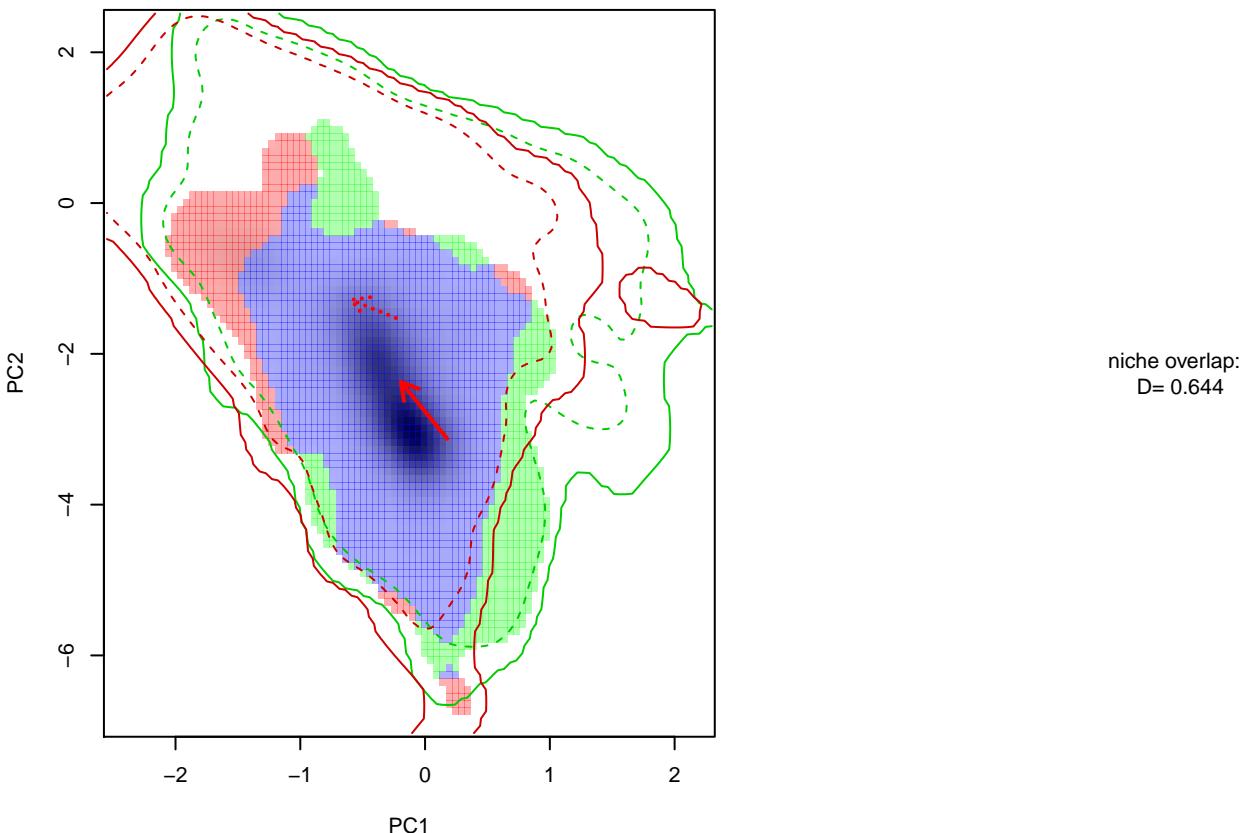
Similarity 2→1



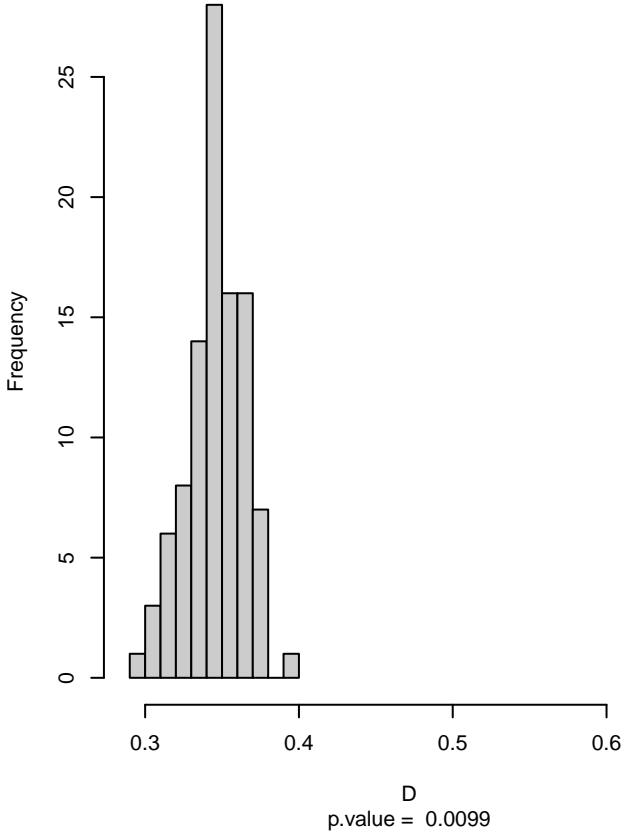
Similarity 1→2



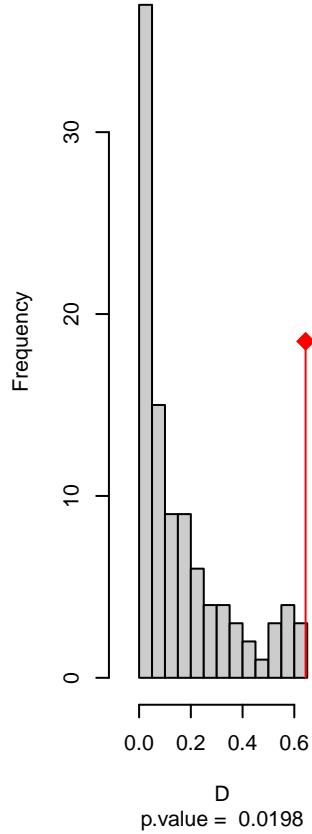
Neochelidon_tibialis seasonal overlap



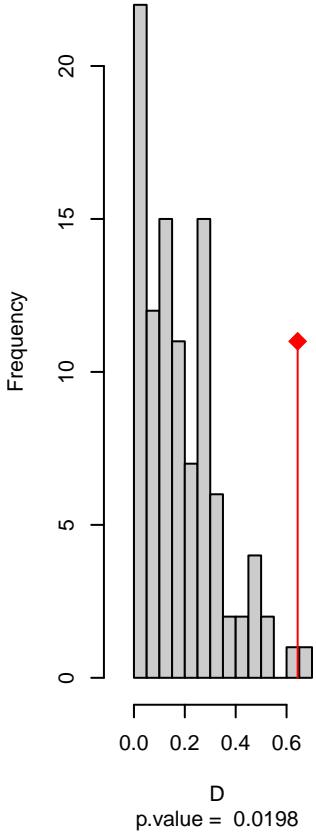
Equivalency



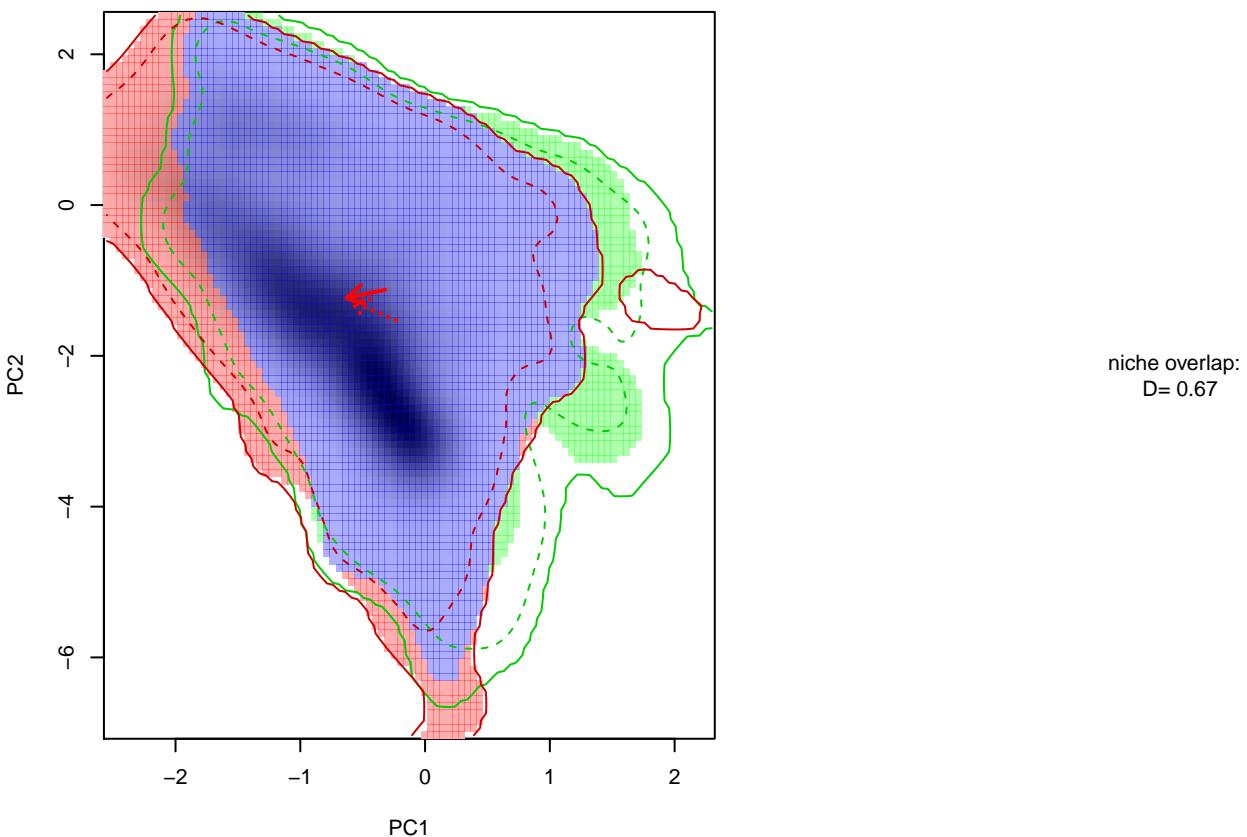
Similarity 2→1



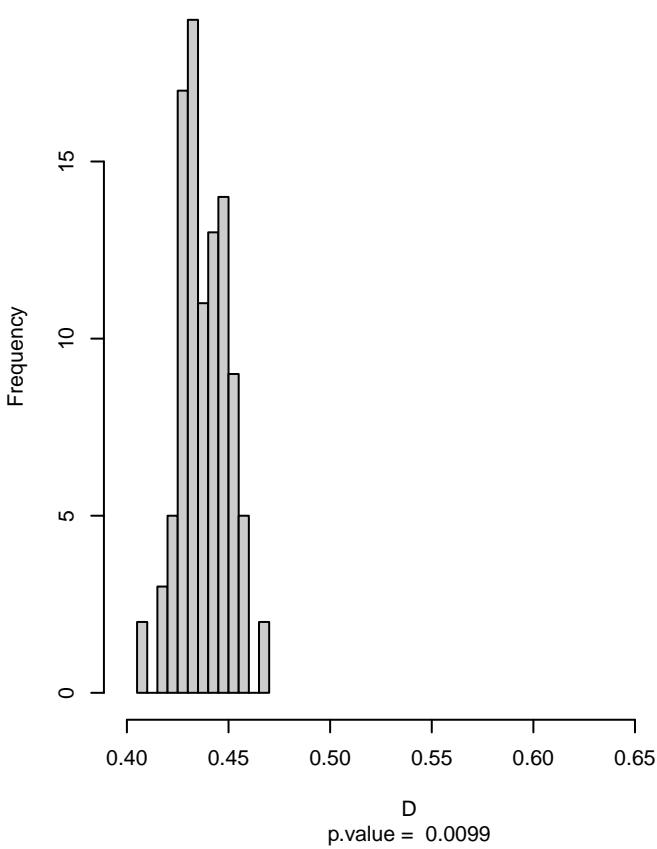
Similarity 1→2



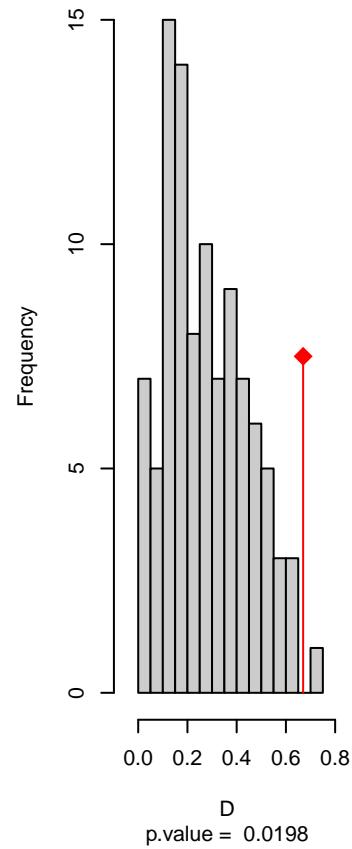
Notiochelidon_cyanoleuca seasonal overlap



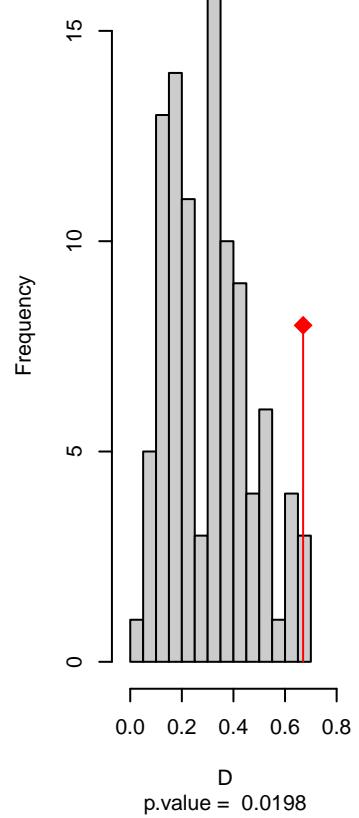
Equivalency



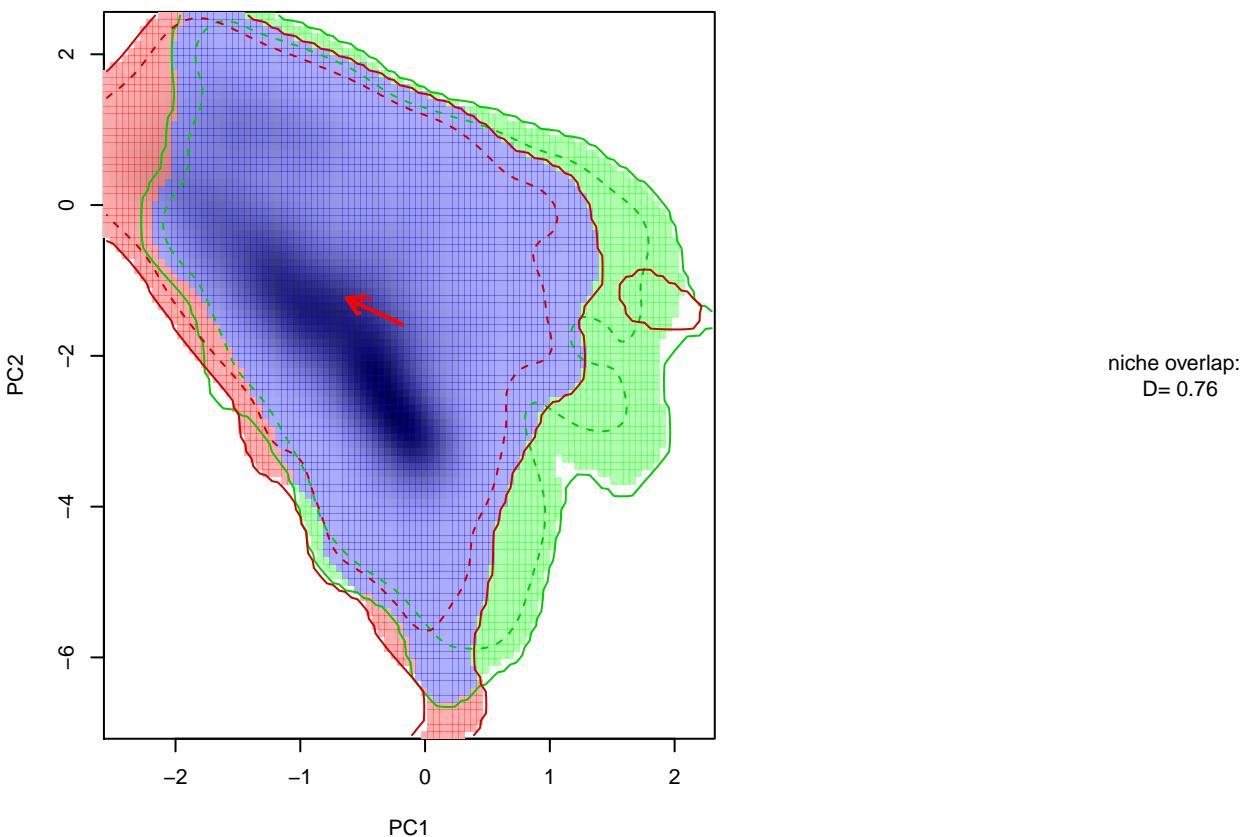
Similarity 2→1



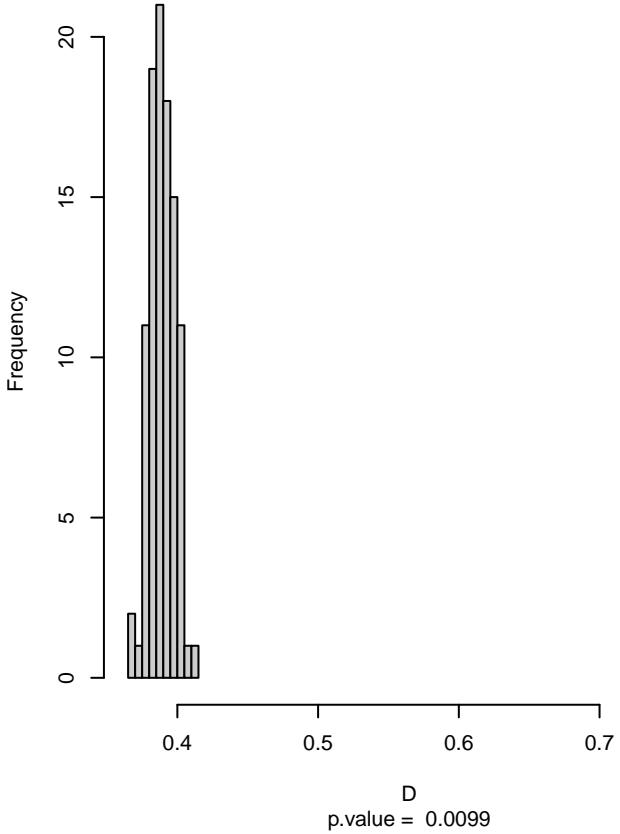
Similarity 1→2



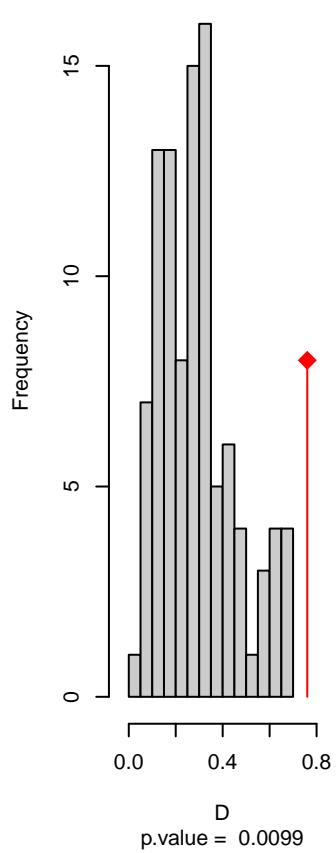
Notiochelidon cyanoleuca seasonal overlap-hypo.br



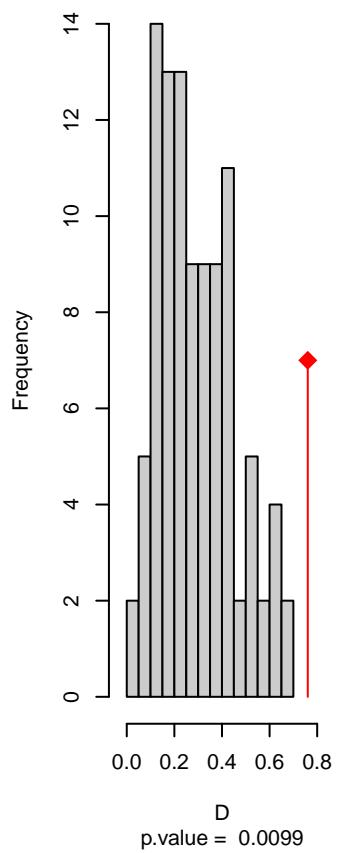
Equivalency



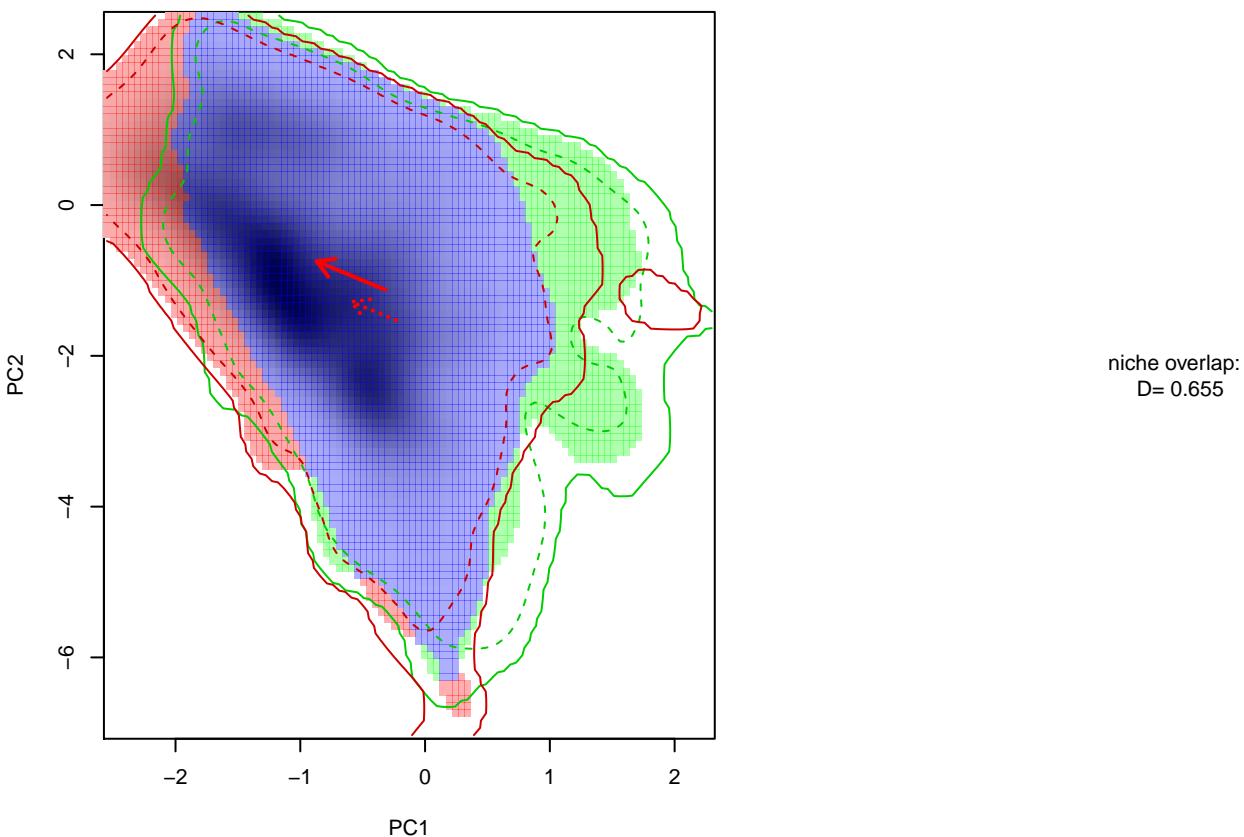
Similarity 2→1



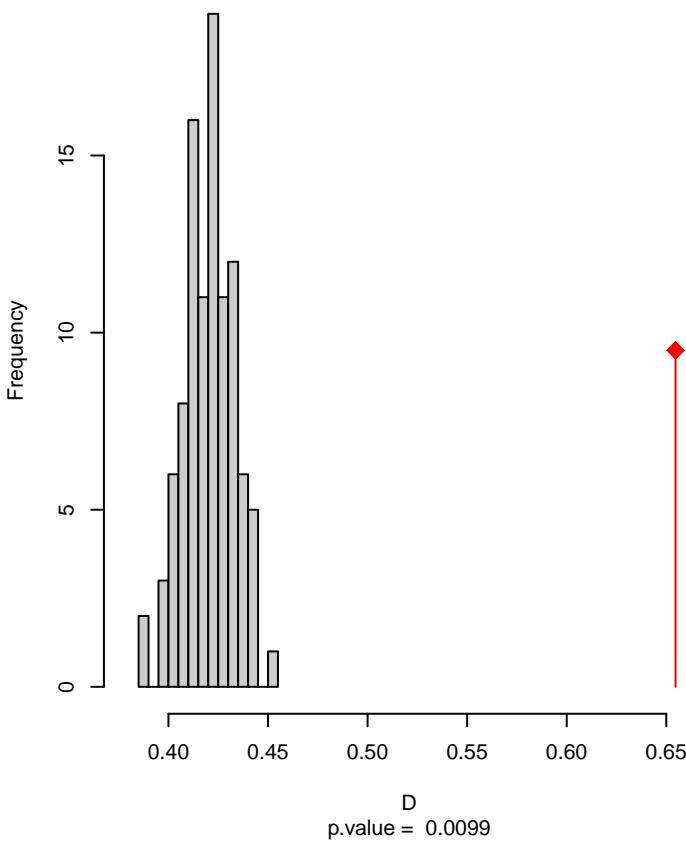
Similarity 1→2



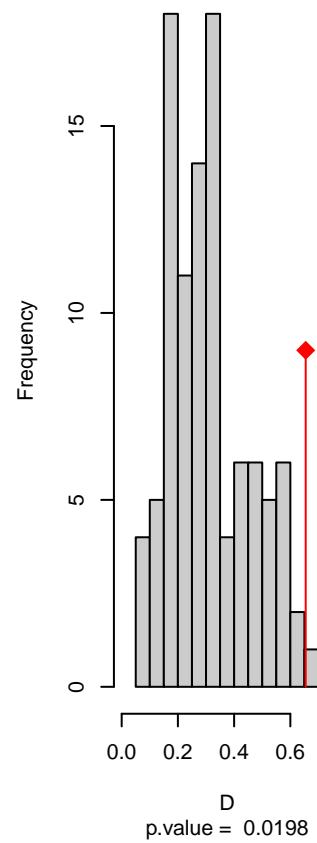
Notiochelidon_cyanoleuca seasonal overlap-hypo wi



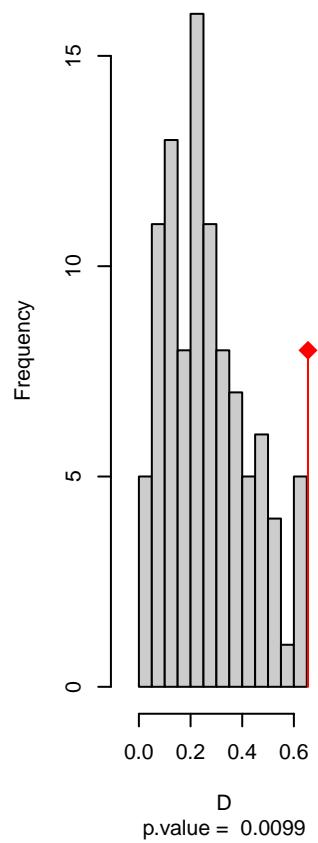
Equivalency



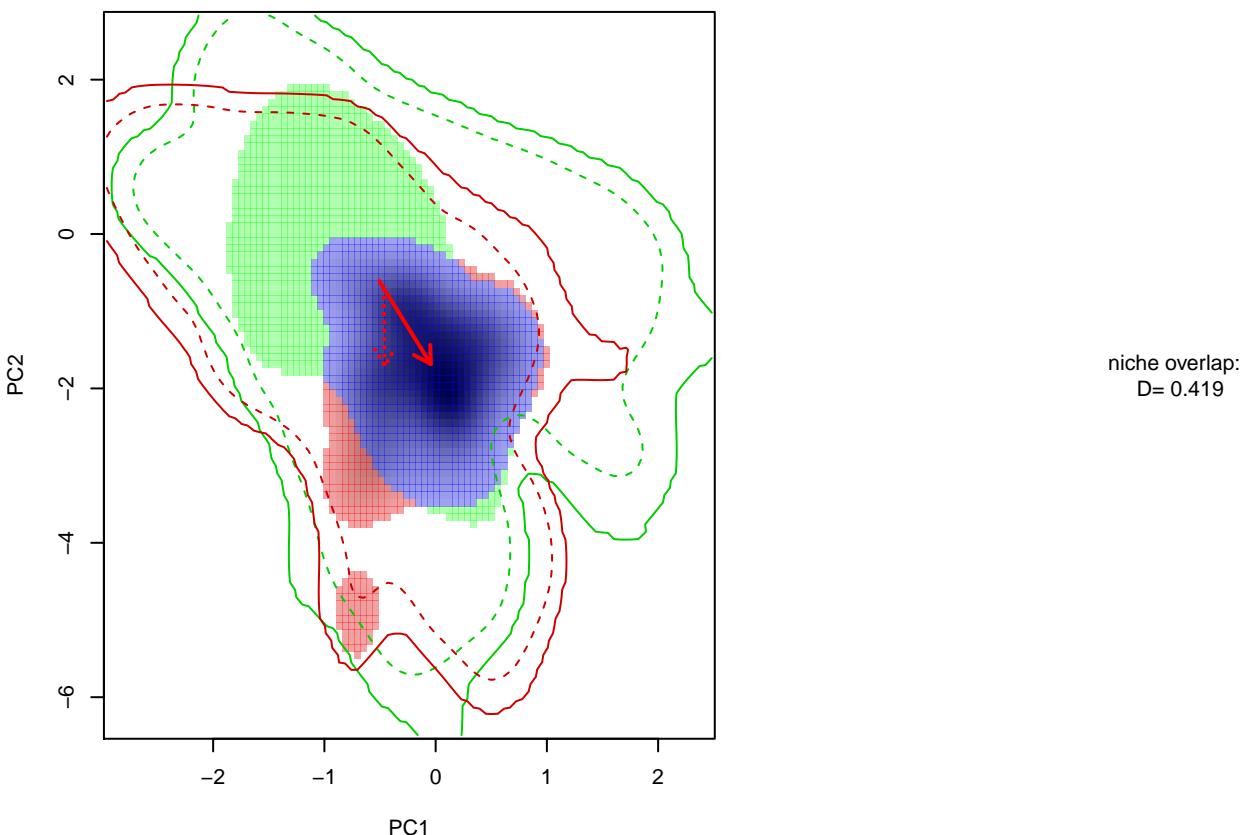
Similarity 2->1



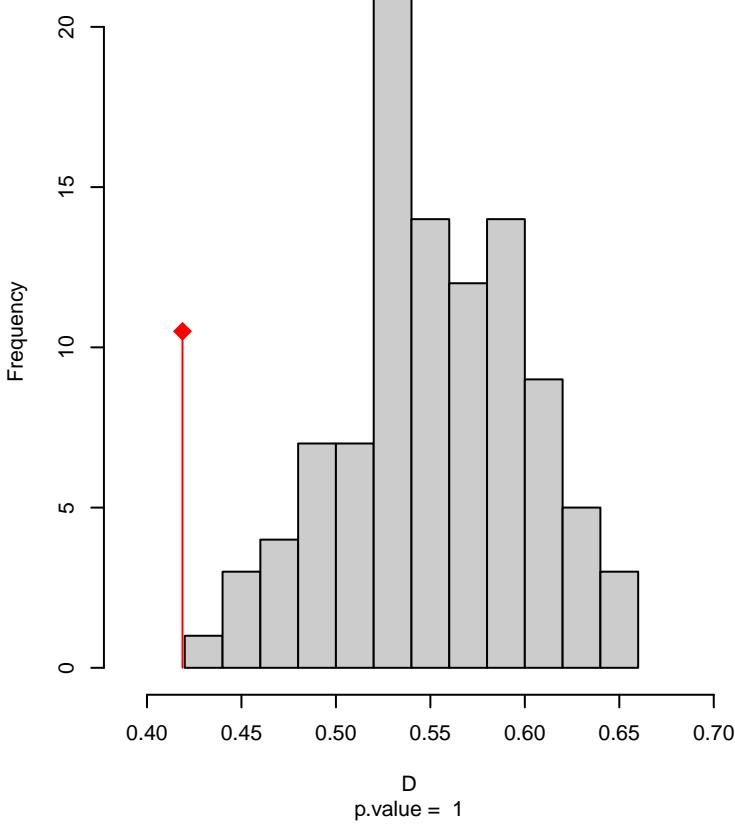
Similarity 1->2



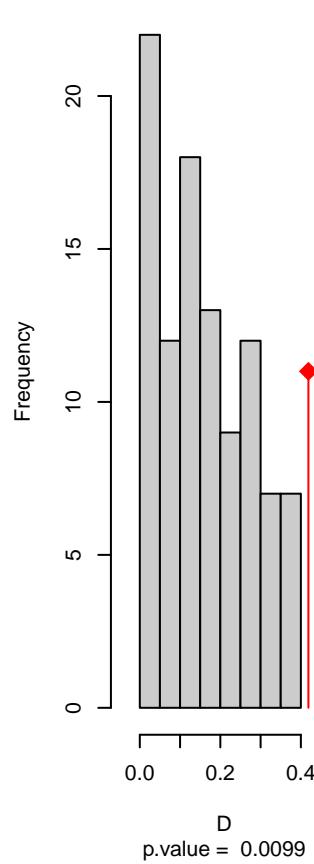
Notiochelidon_flavipes seasonal overlap



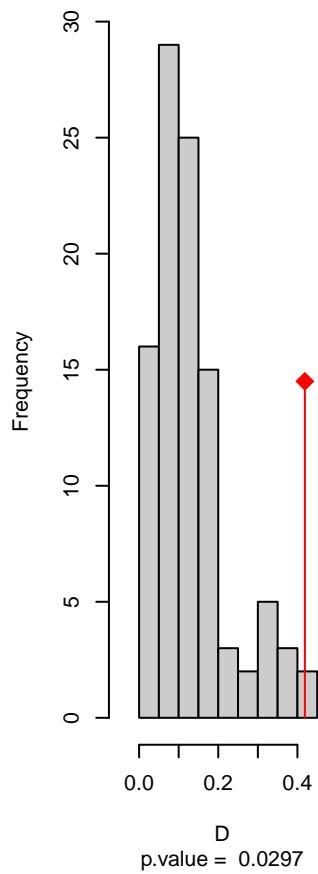
Equivalency



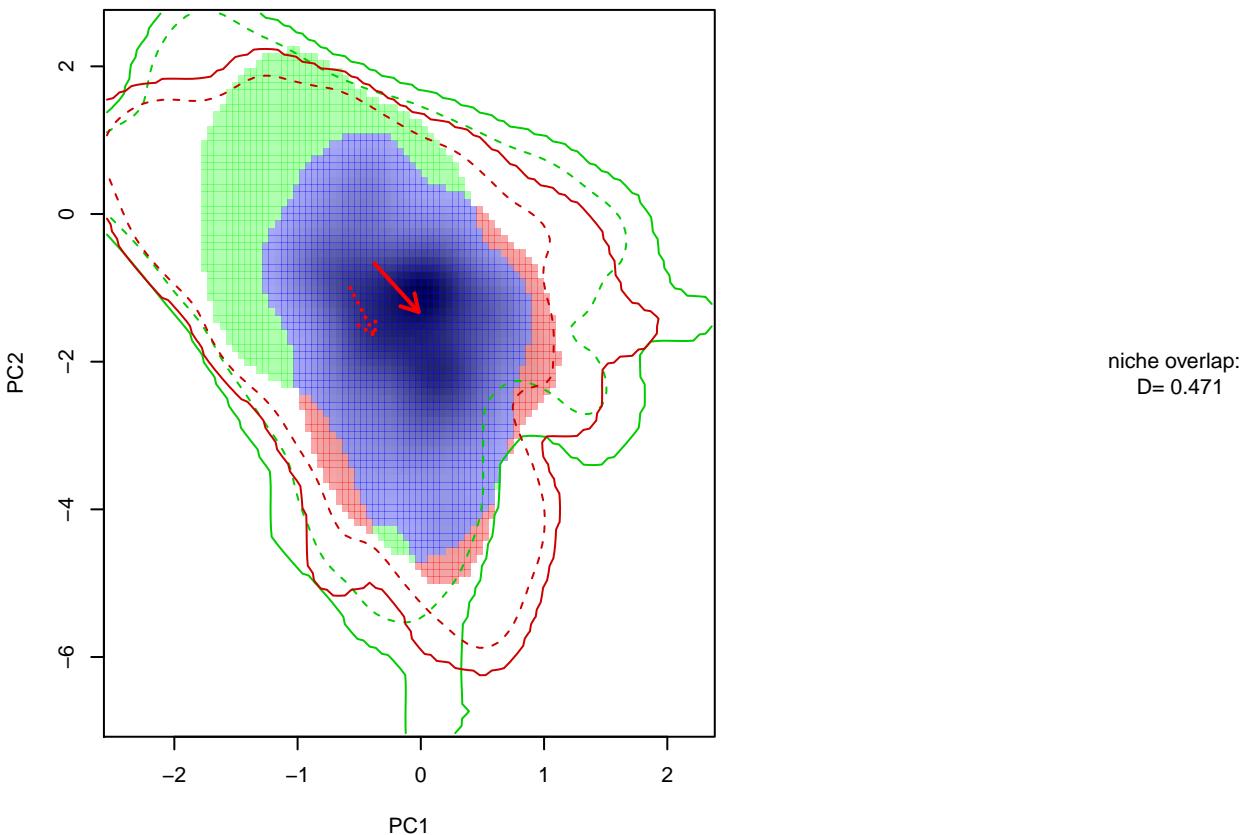
Similarity 2→1



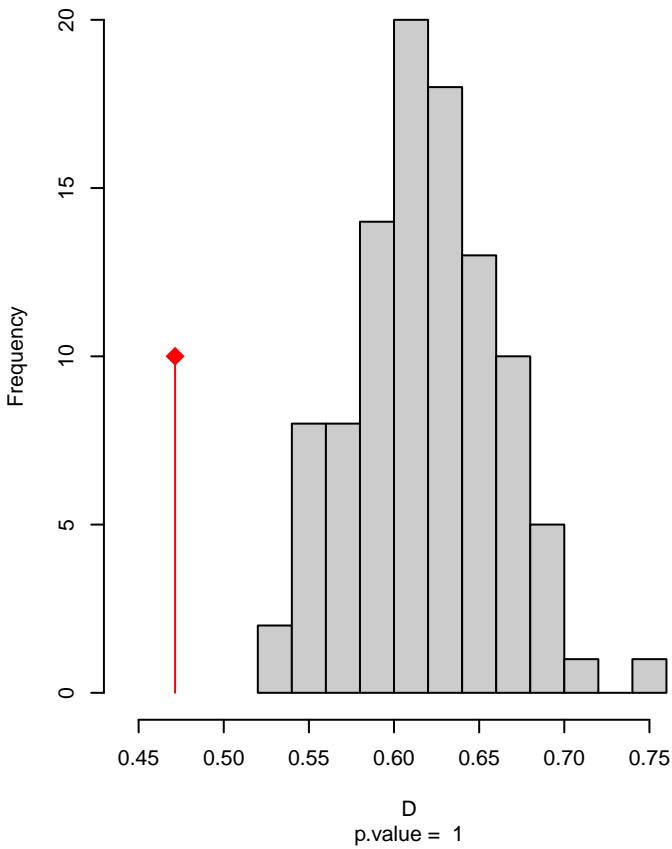
Similarity 1→2



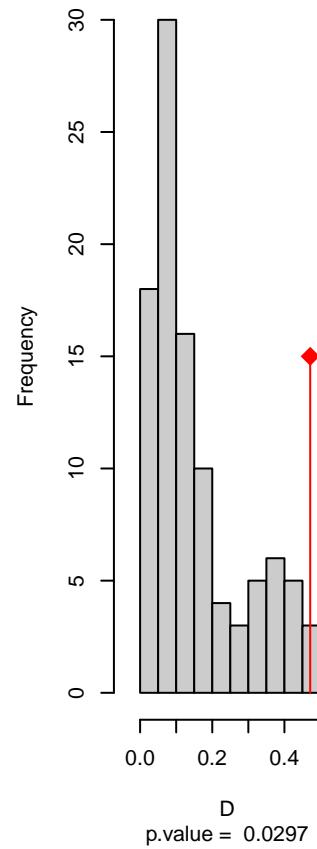
Notiochelidon_murina seasonal overlap



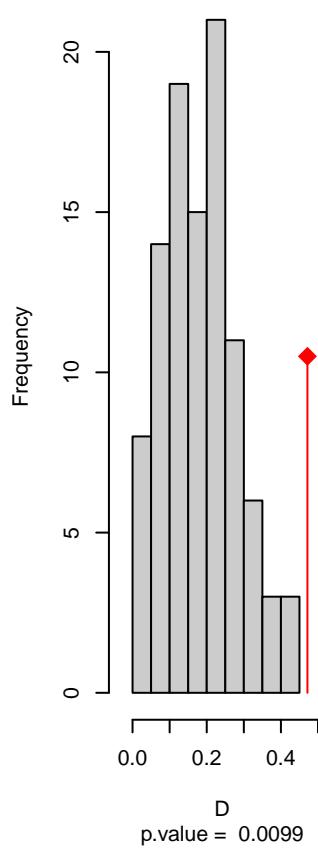
Equivalency



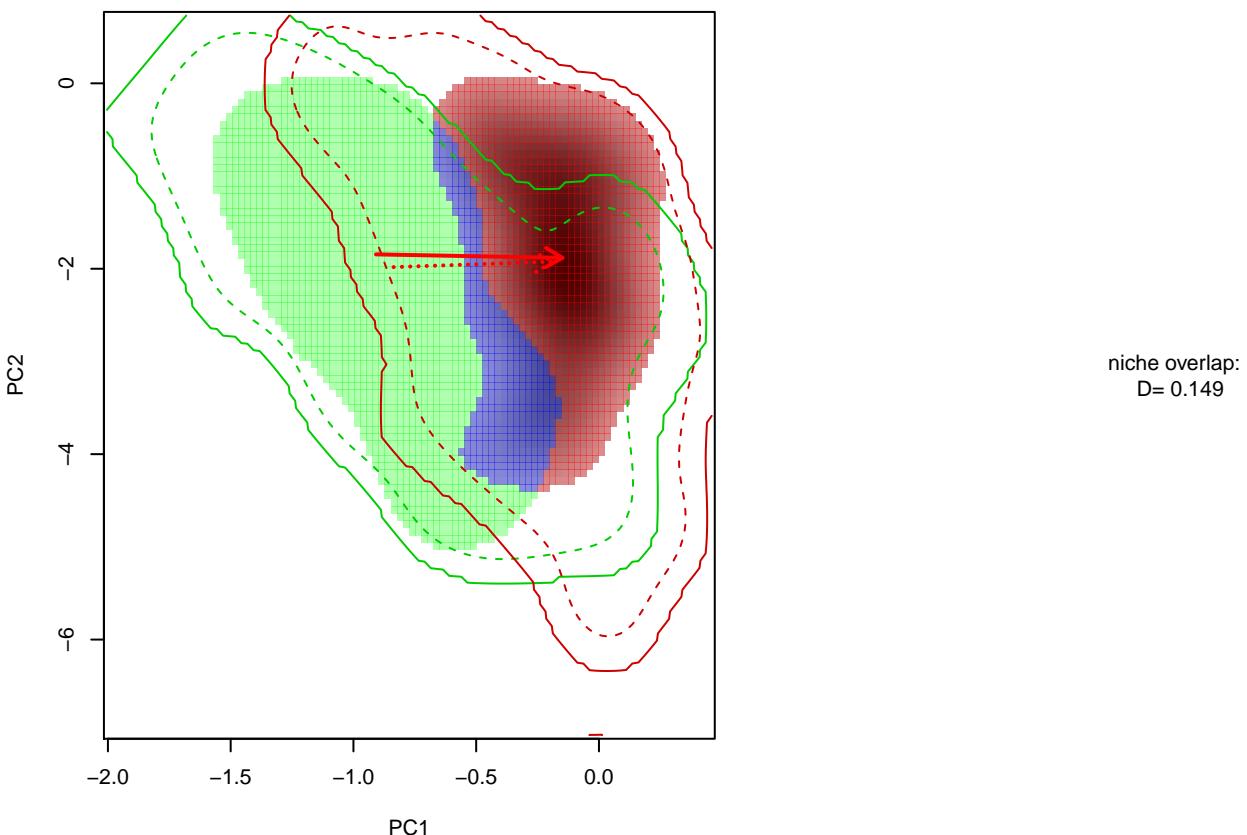
Similarity 2→1



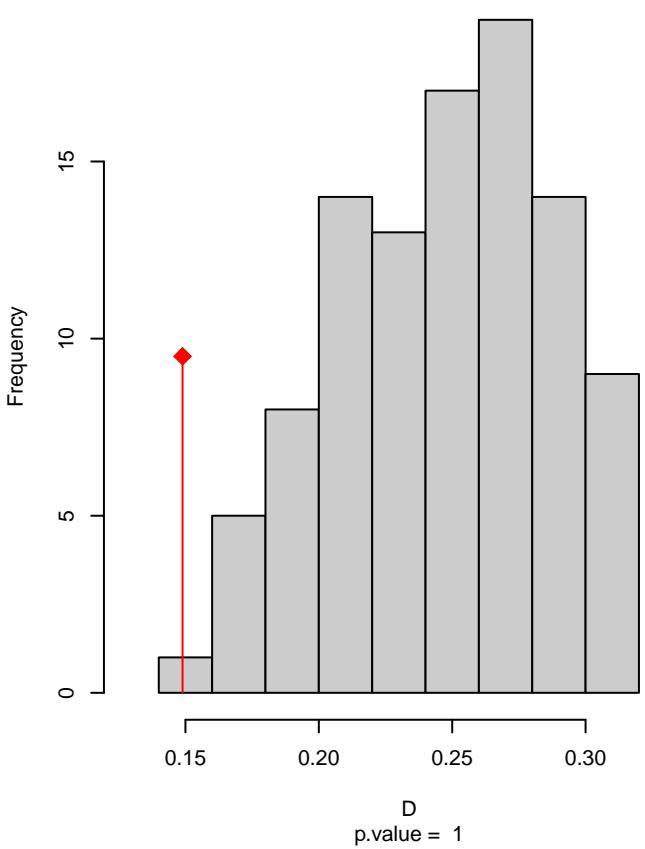
Similarity 1→2



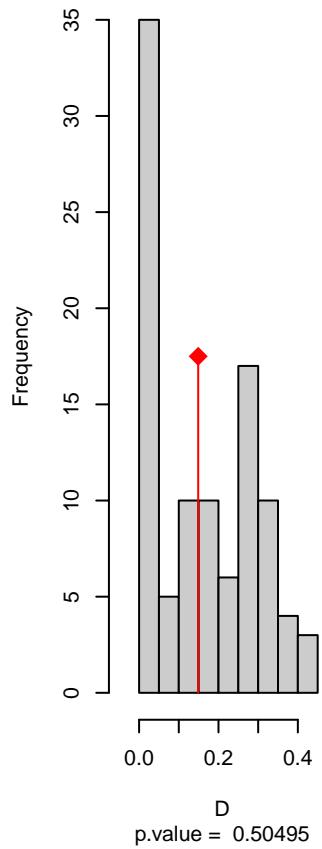
Notiochelidon_pileata seasonal overlap



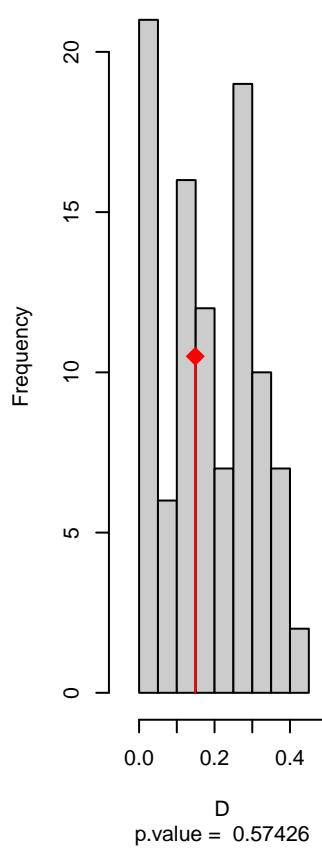
Equivalency



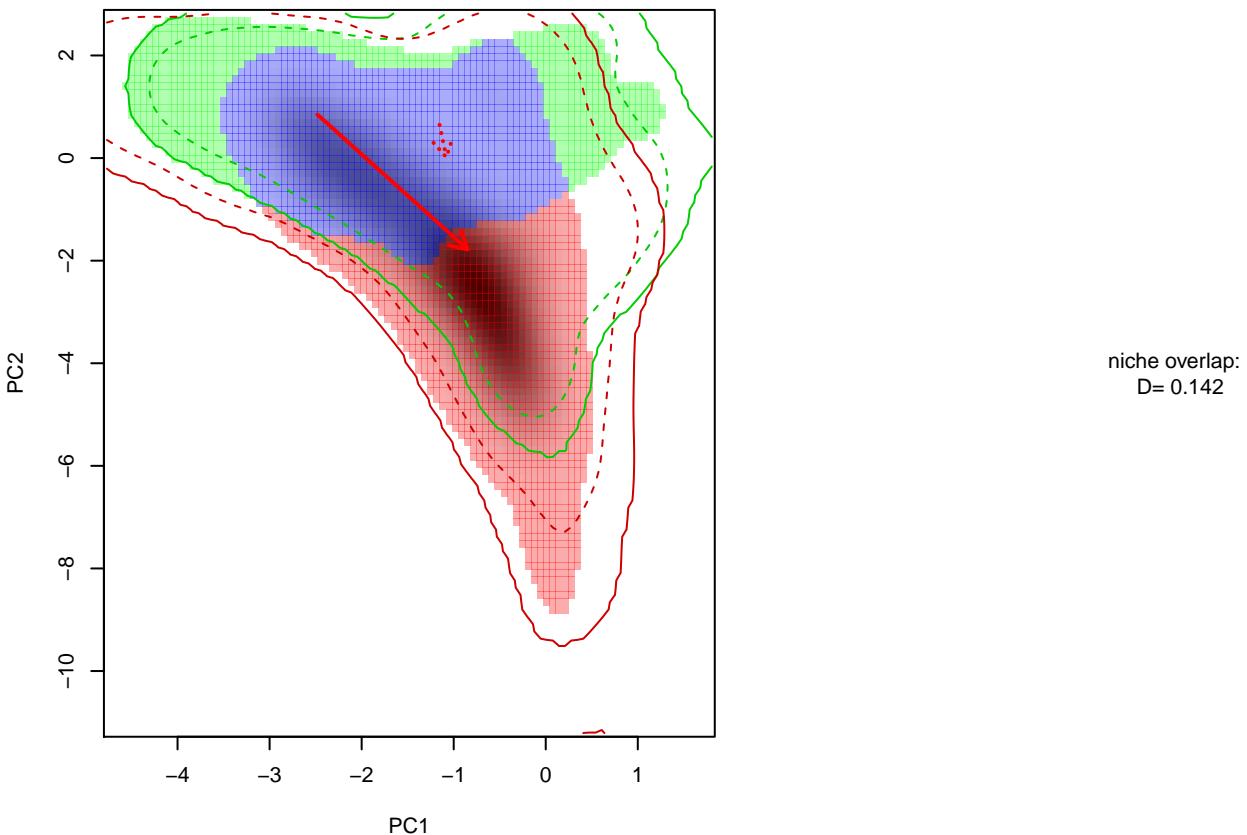
Similarity 2→1



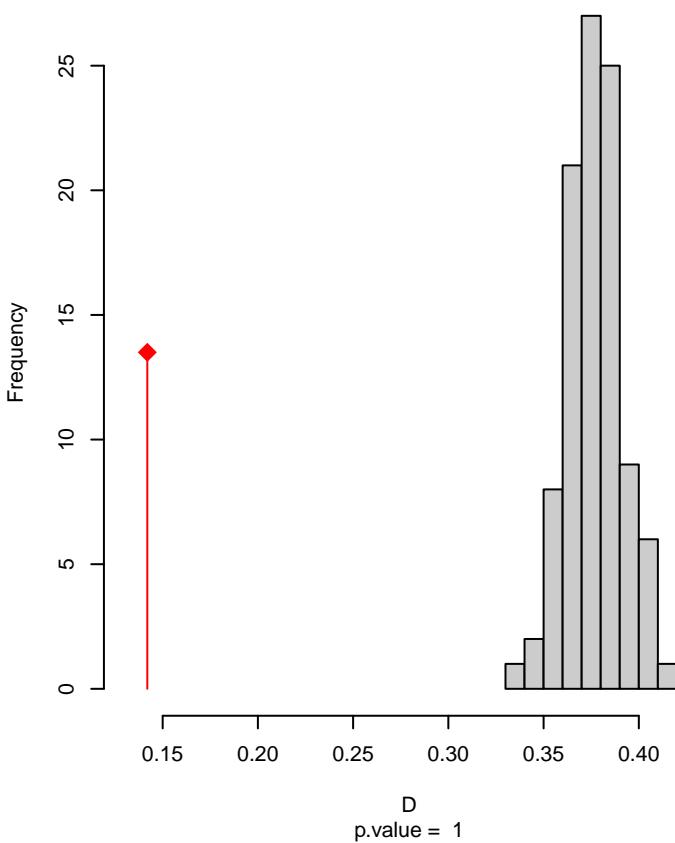
Similarity 1→2



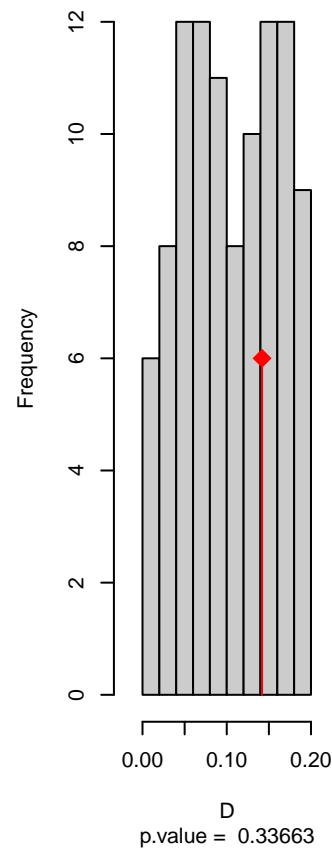
Petrochelidon_fluvicola seasonal overlap



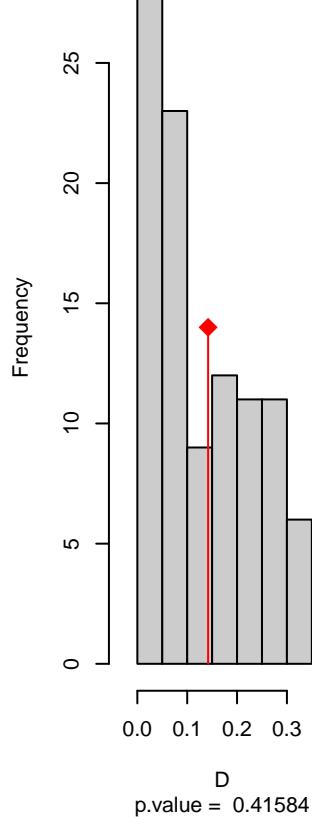
Equivalency



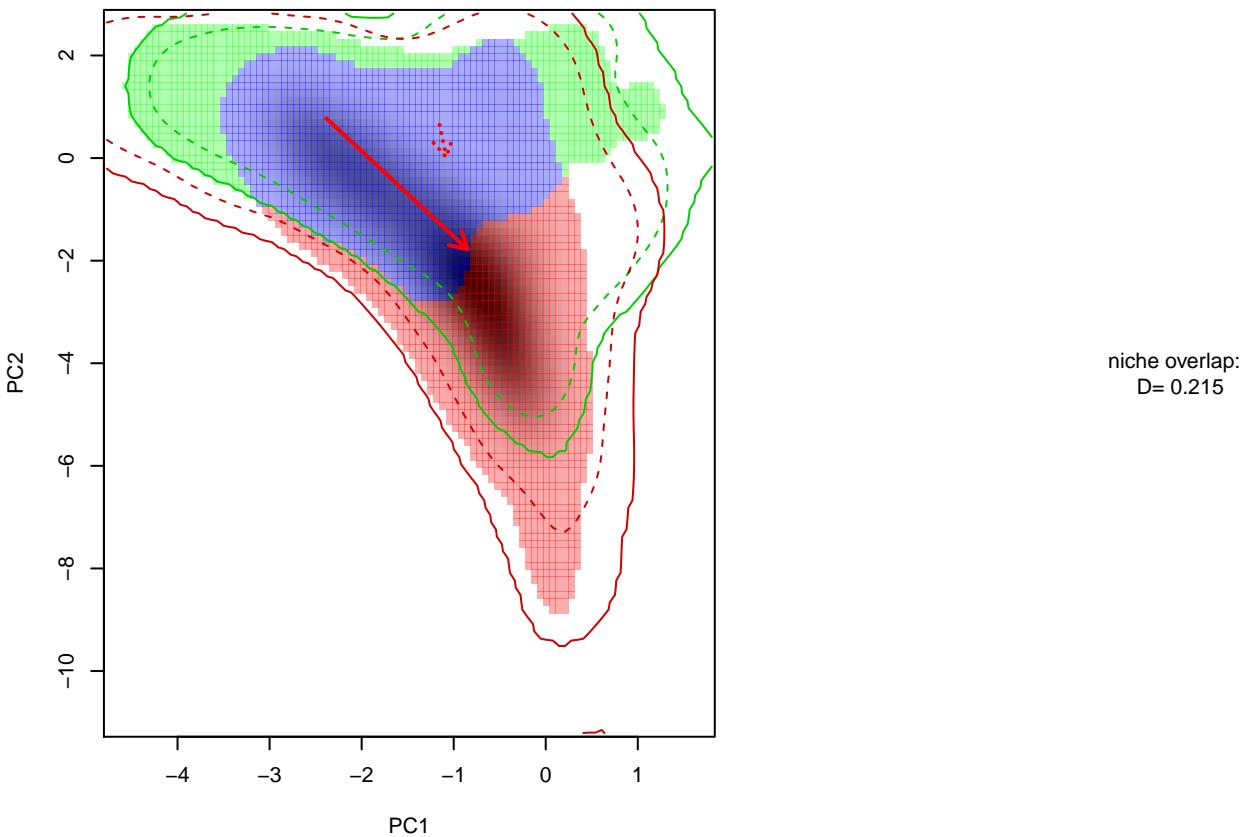
Similarity 2→1



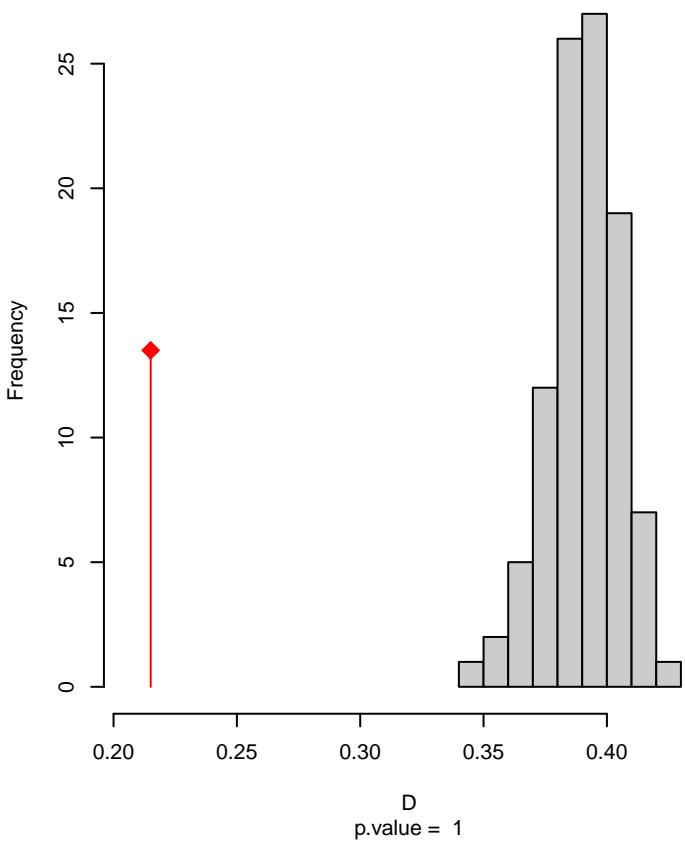
Similarity 1→2



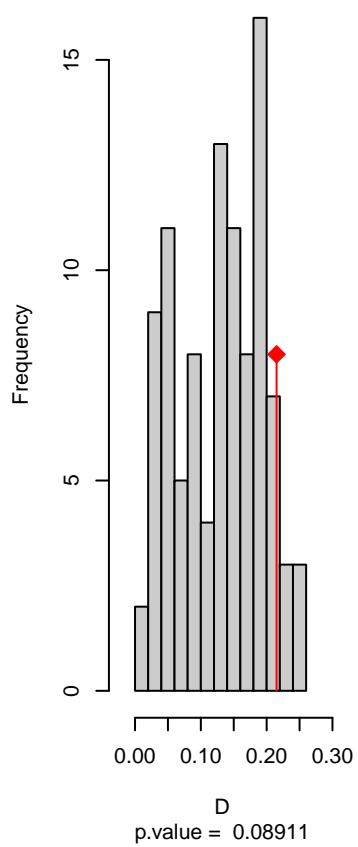
Petrochelidon_fluvicola seasonal overlap-hypo.br



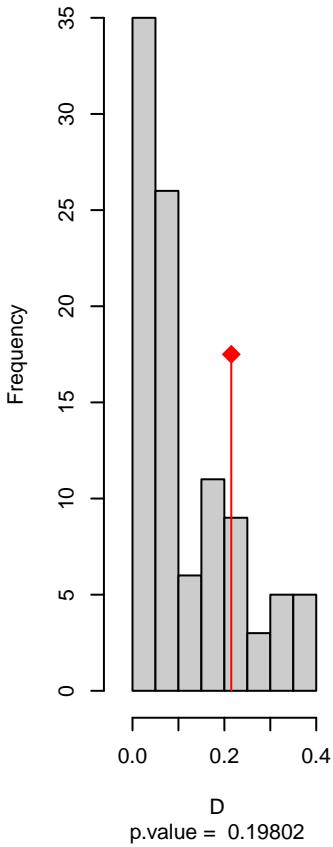
Equivalency



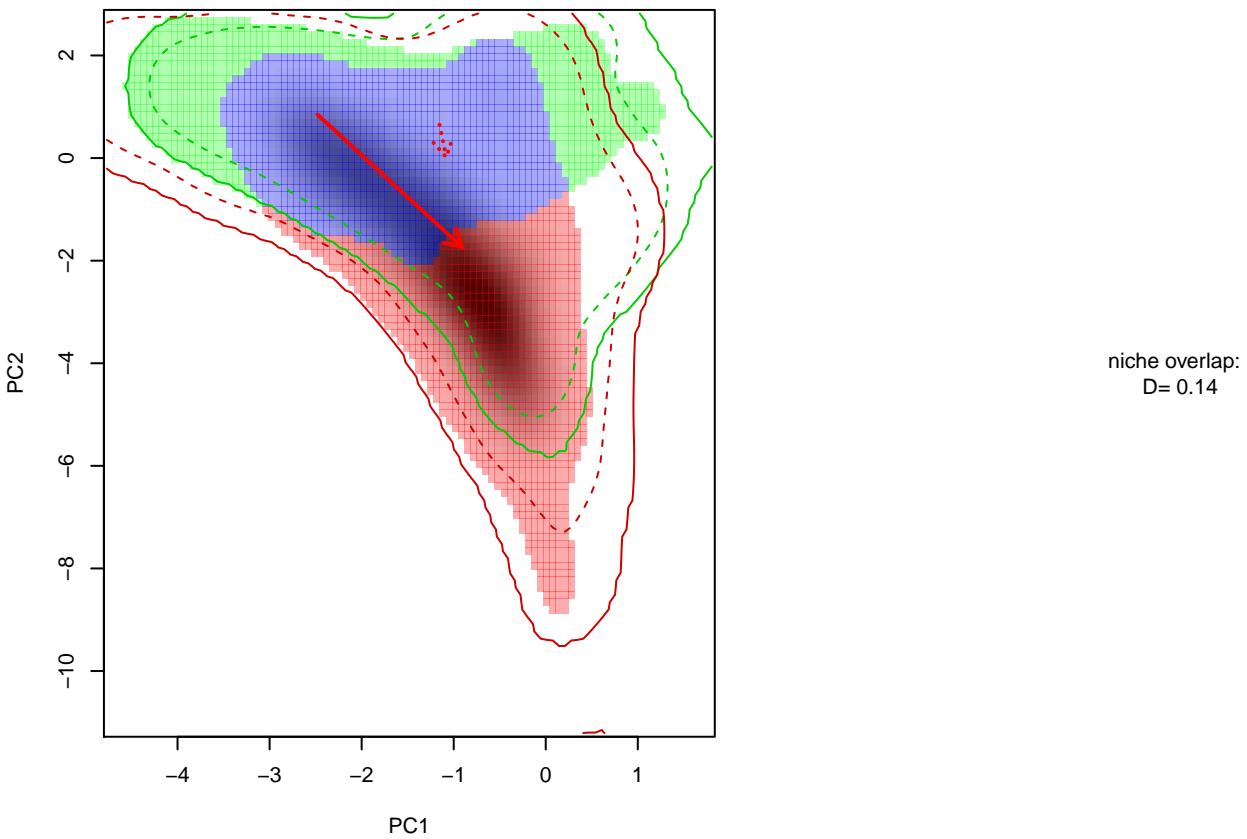
Similarity 2->1



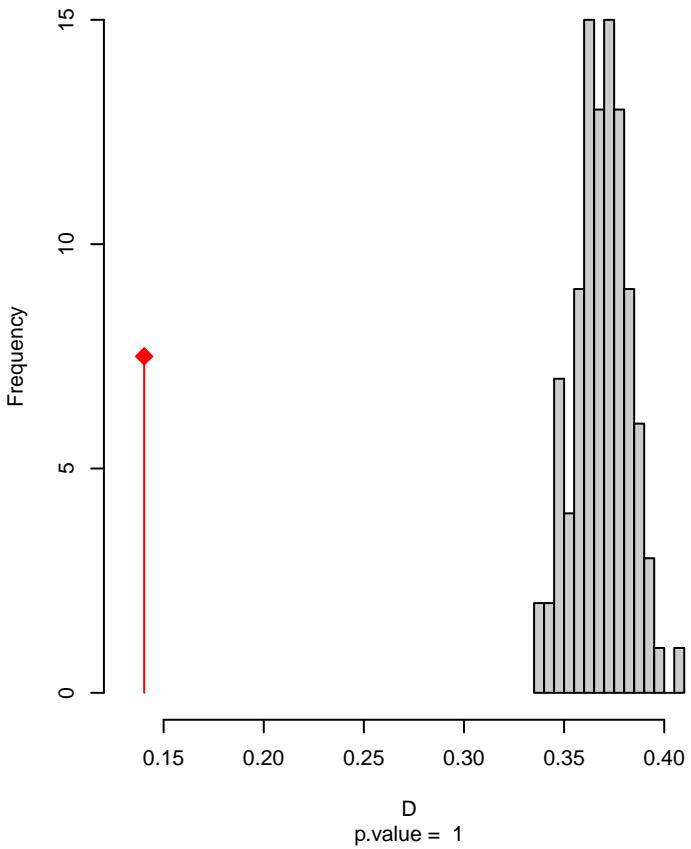
Similarity 1->2



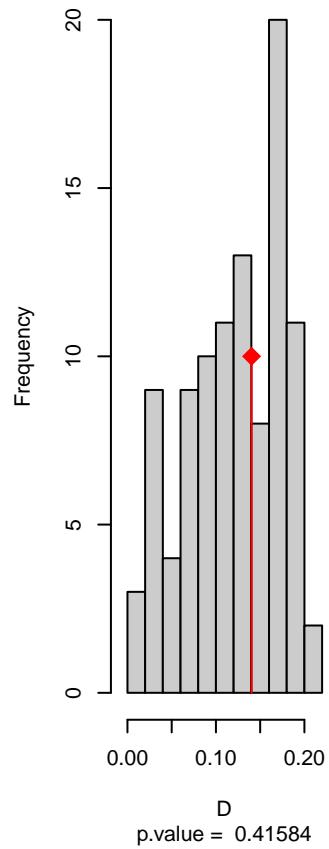
Petrochelidon_fluvicola seasonal overlap-hypo wi



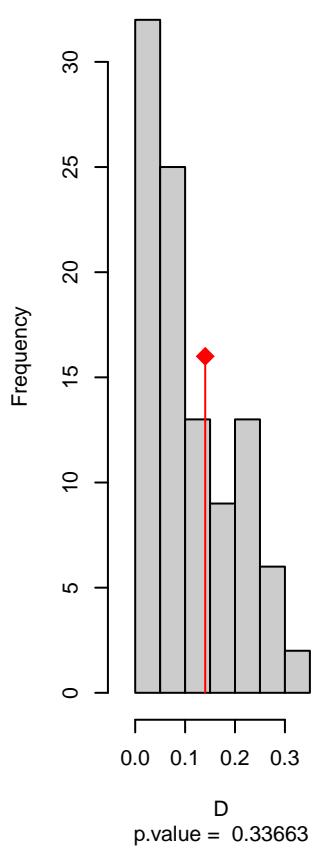
Equivalency



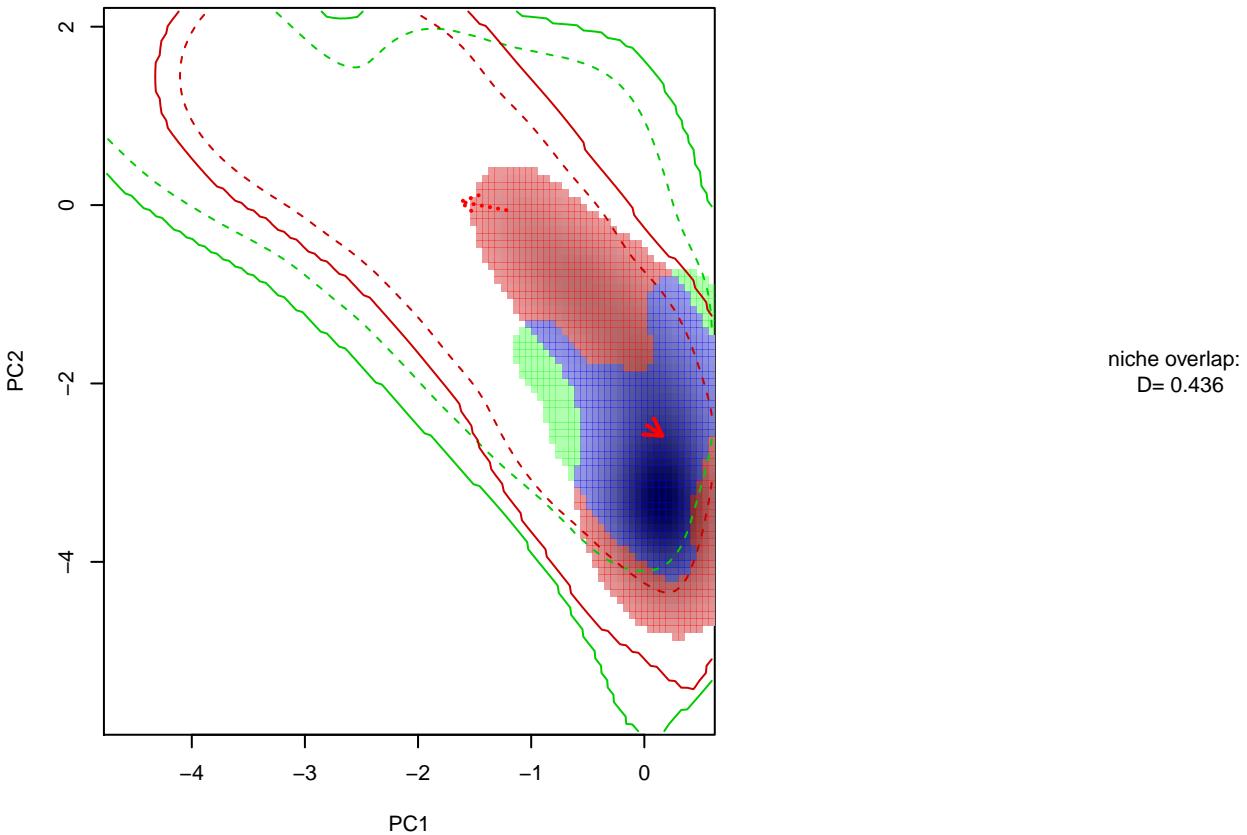
Similarity 2->1



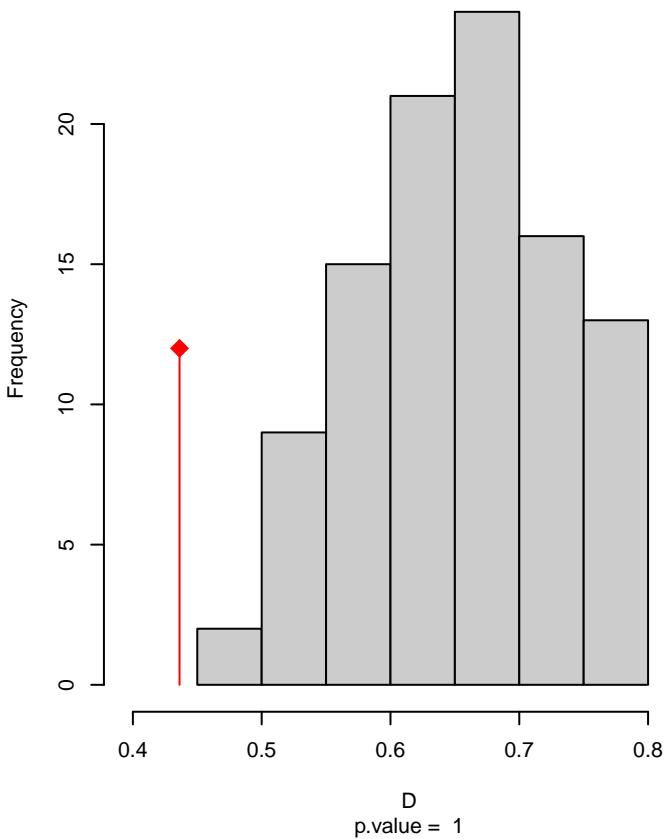
Similarity 1->2



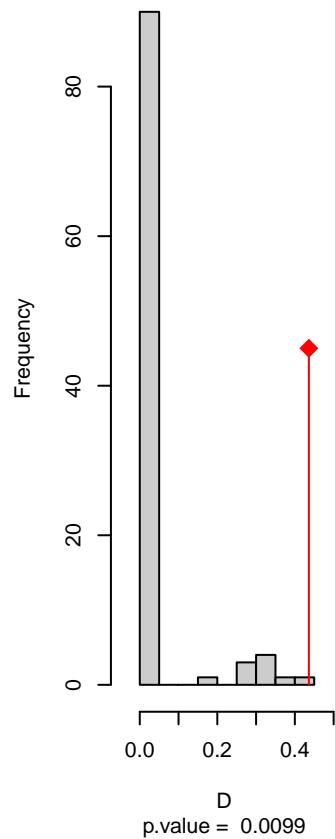
Petrochelidon_fuliginosa seasonal overlap



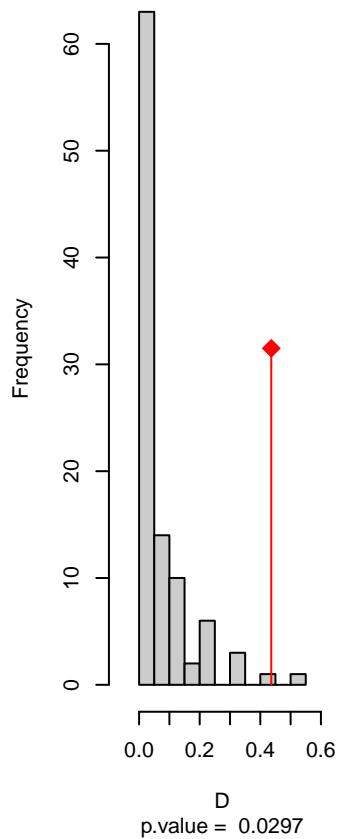
Equivalency



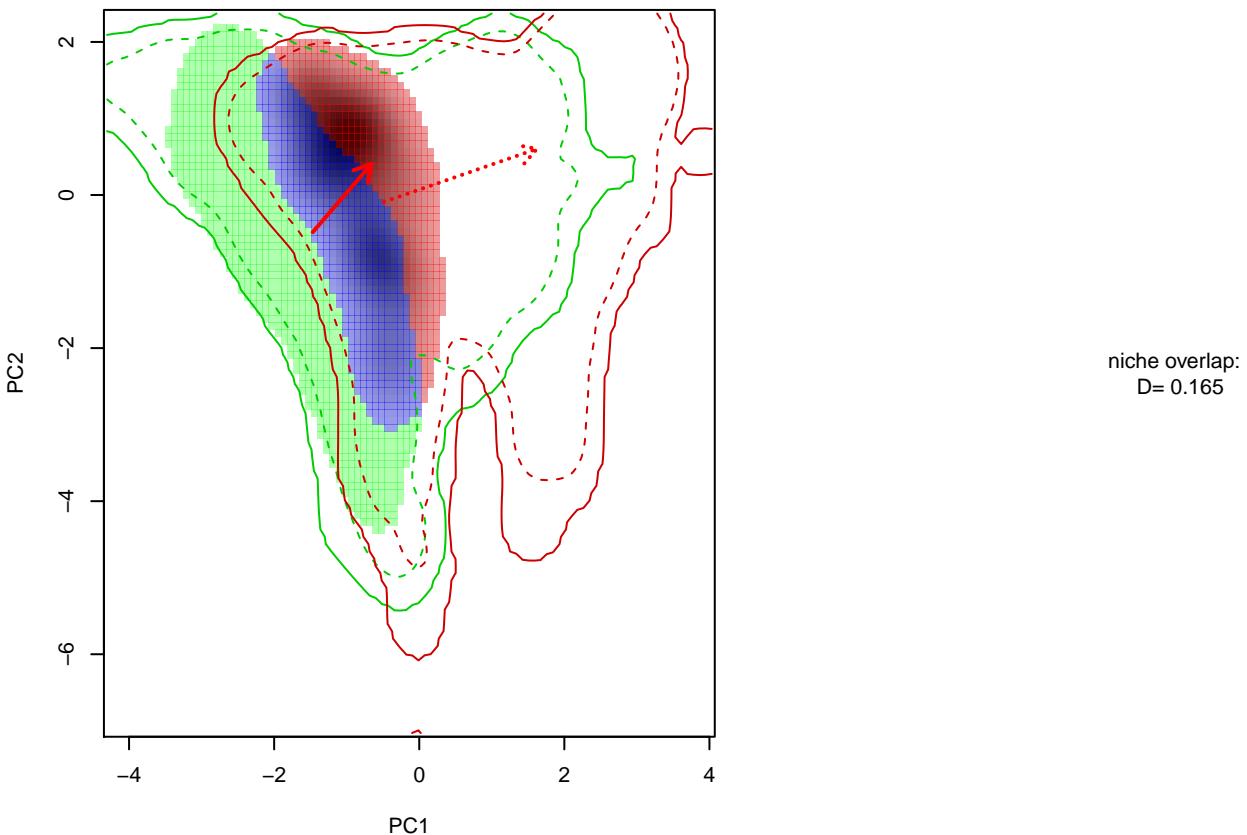
Similarity 2→1



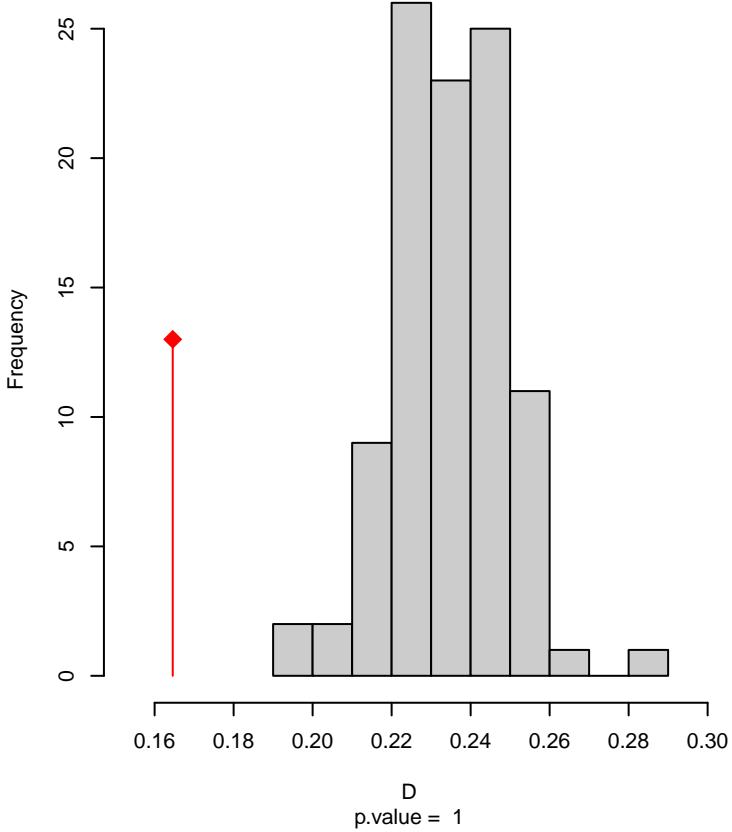
Similarity 1→2



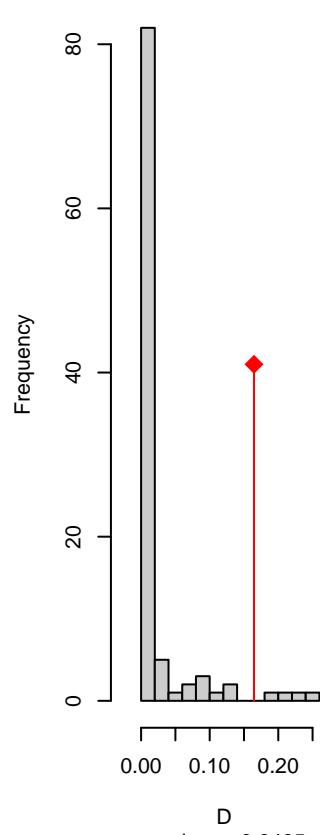
Petrochelidon_fulva seasonal overlap



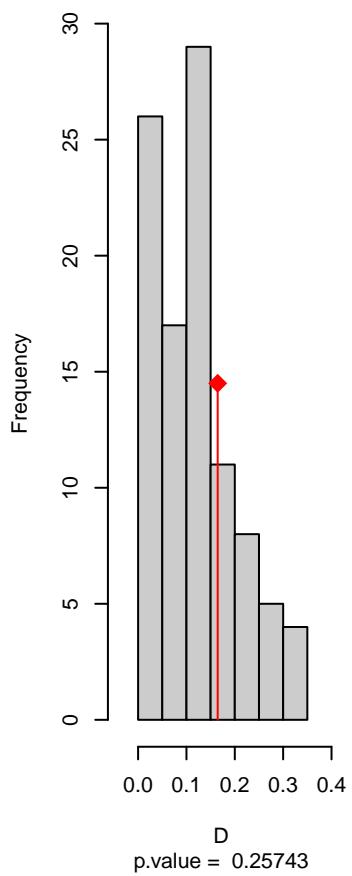
Equivalency



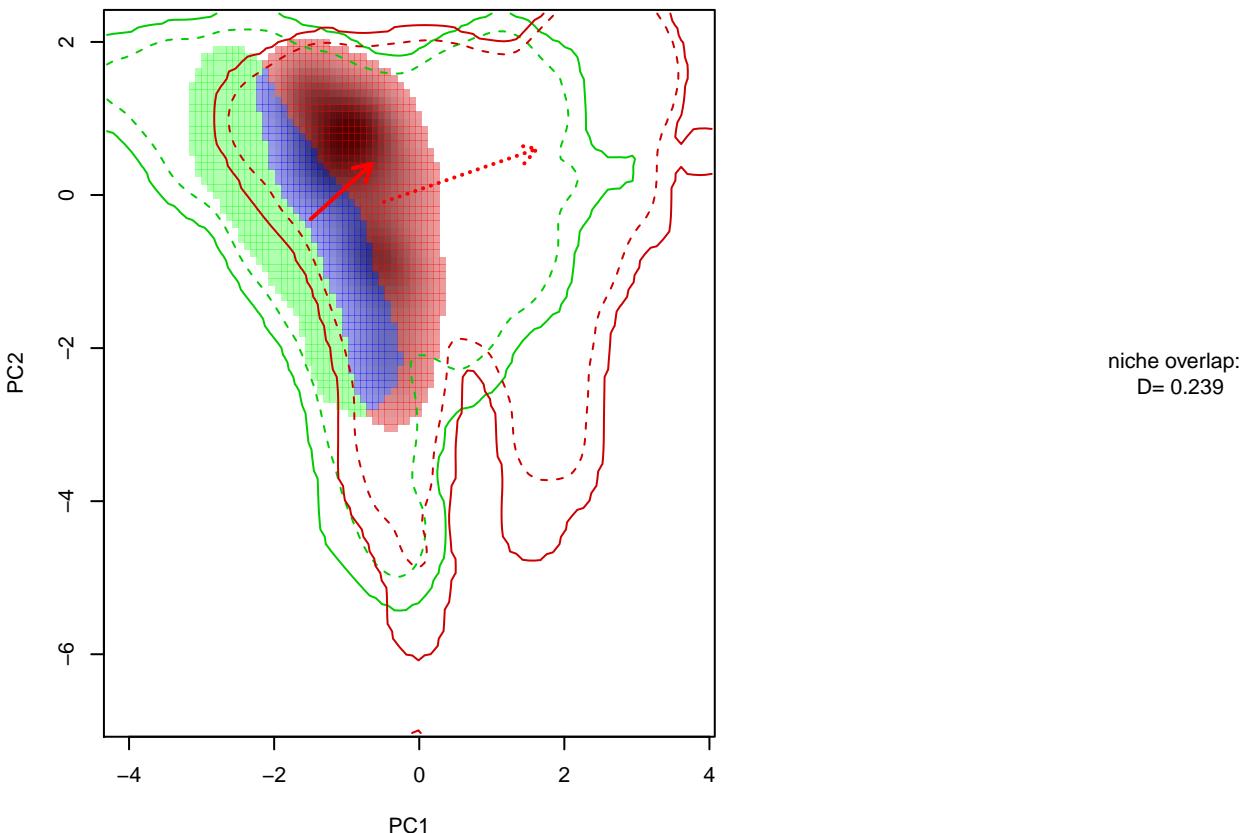
Similarity 2→1



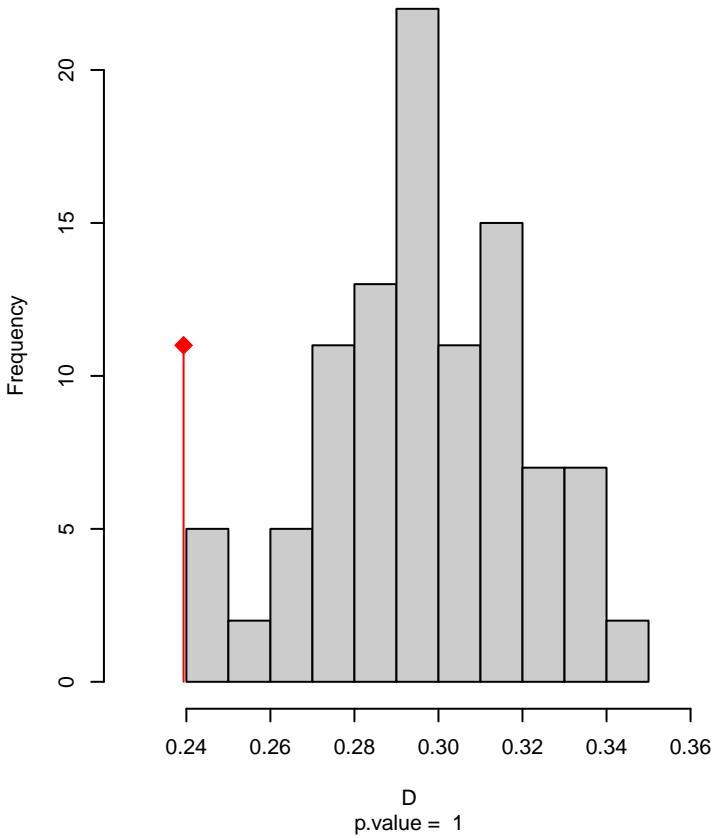
Similarity 1→2



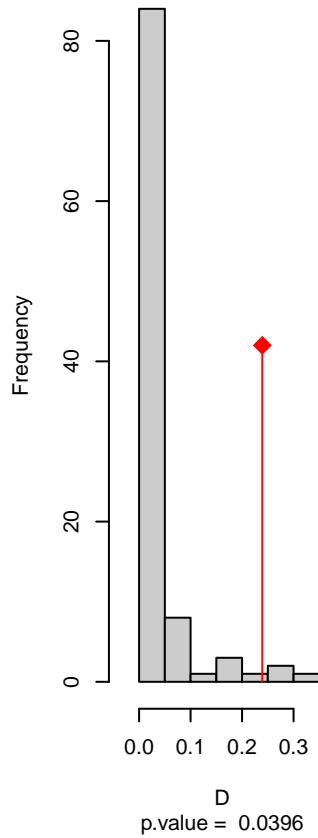
Petrochelidon_fulva seasonal overlap-hypo.br



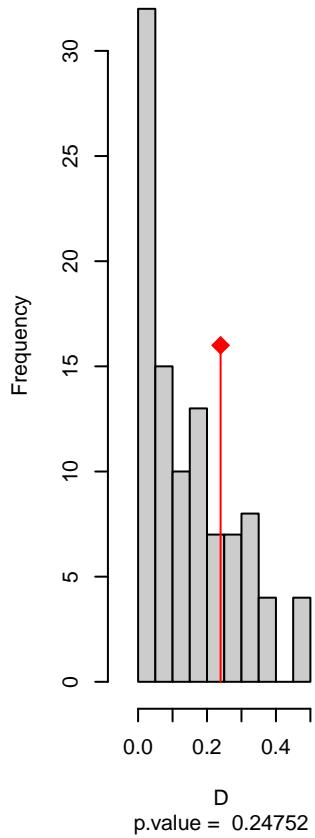
Equivalency



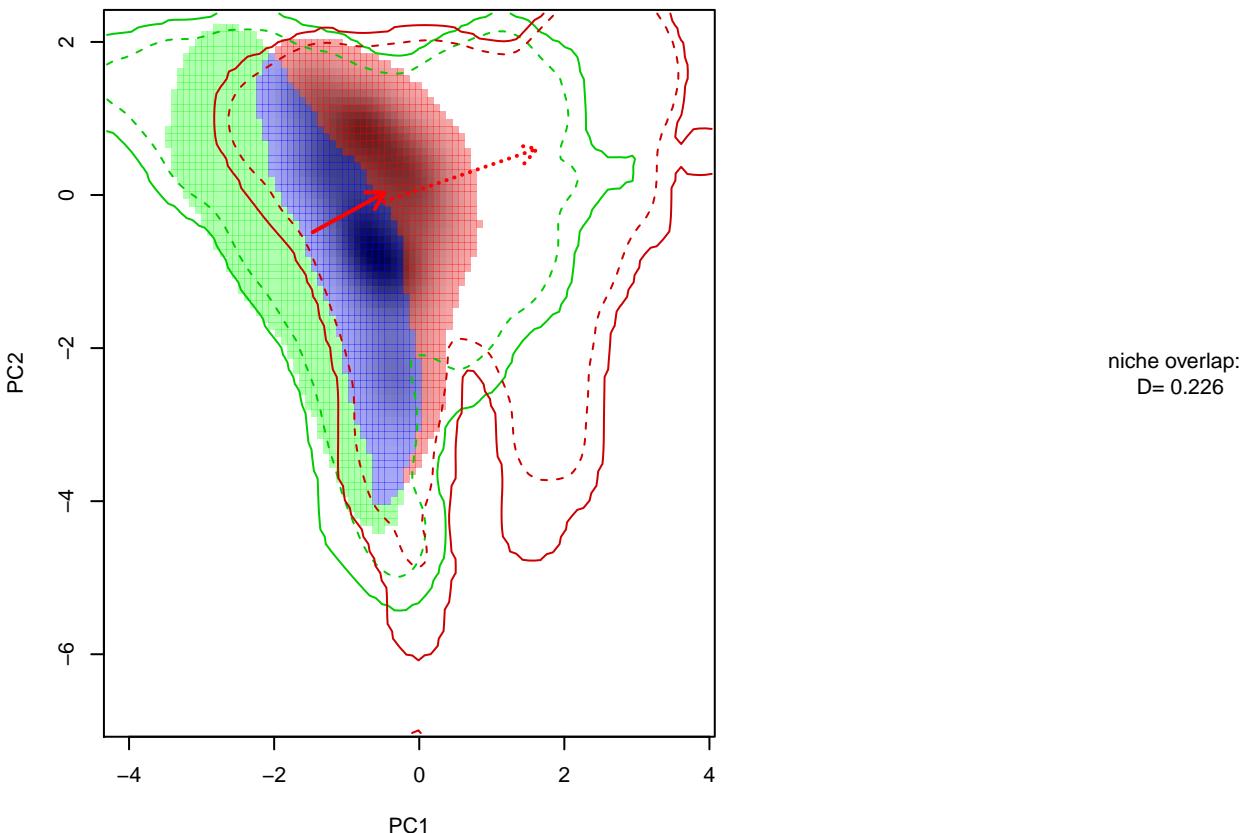
Similarity 2→1



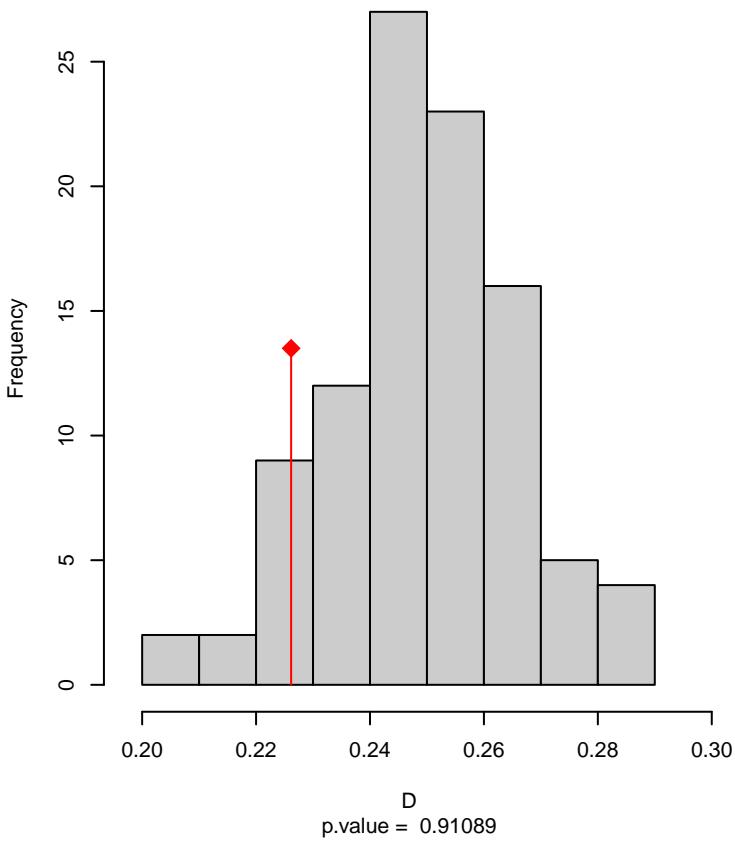
Similarity 1→2



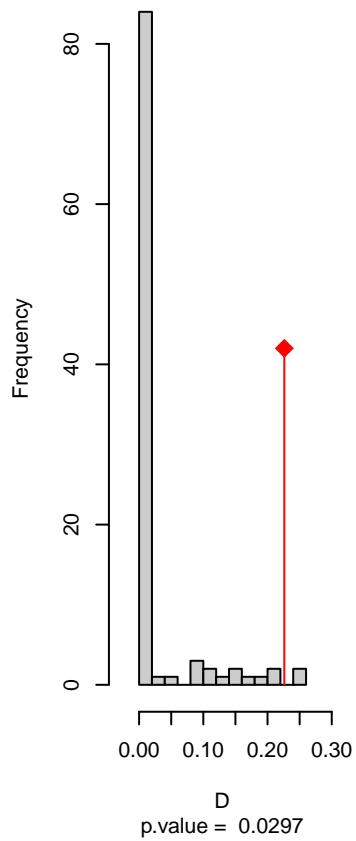
Petrochelidon_fulva seasonal overlap-hypo wi



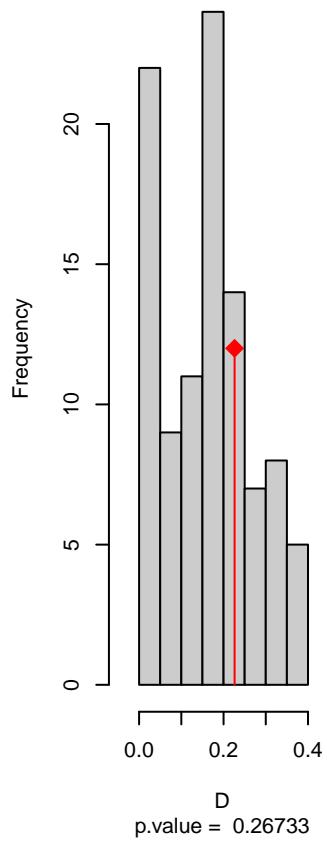
Equivalency



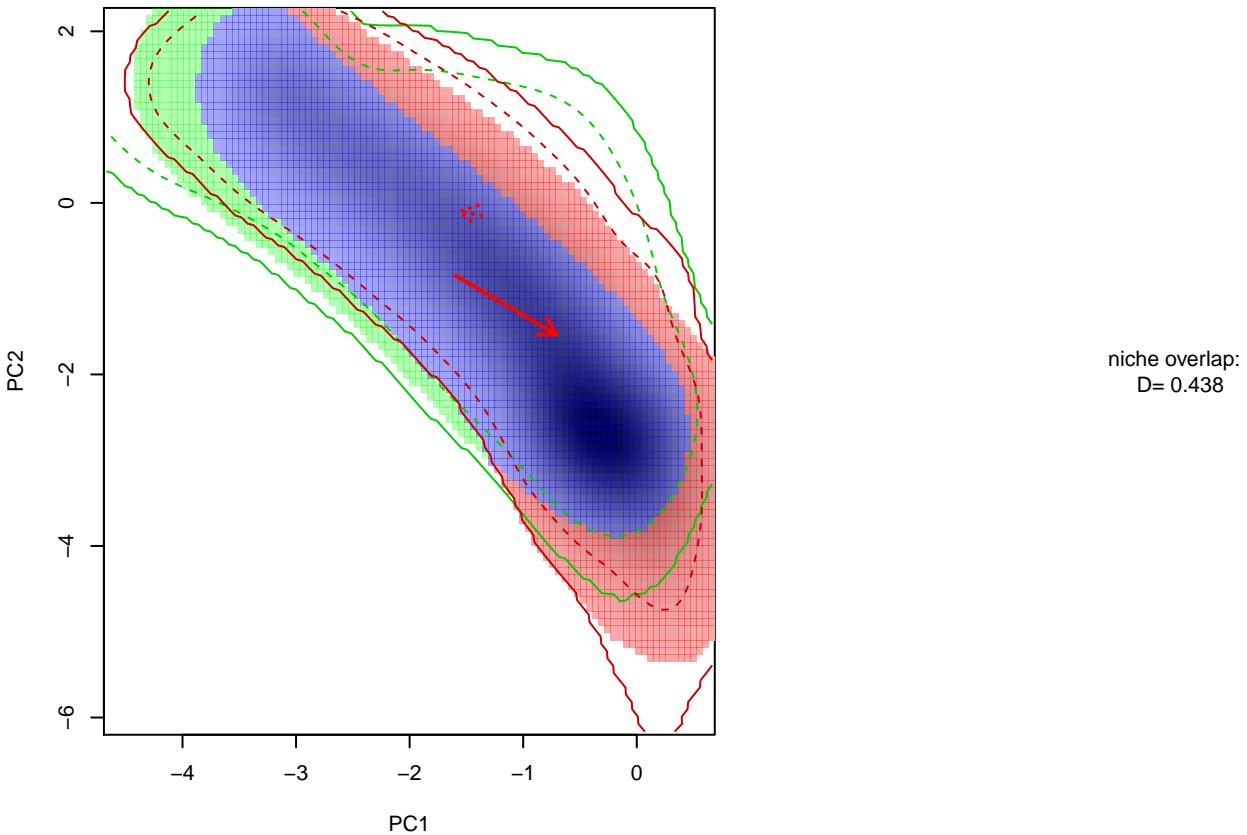
Similarity 2→1



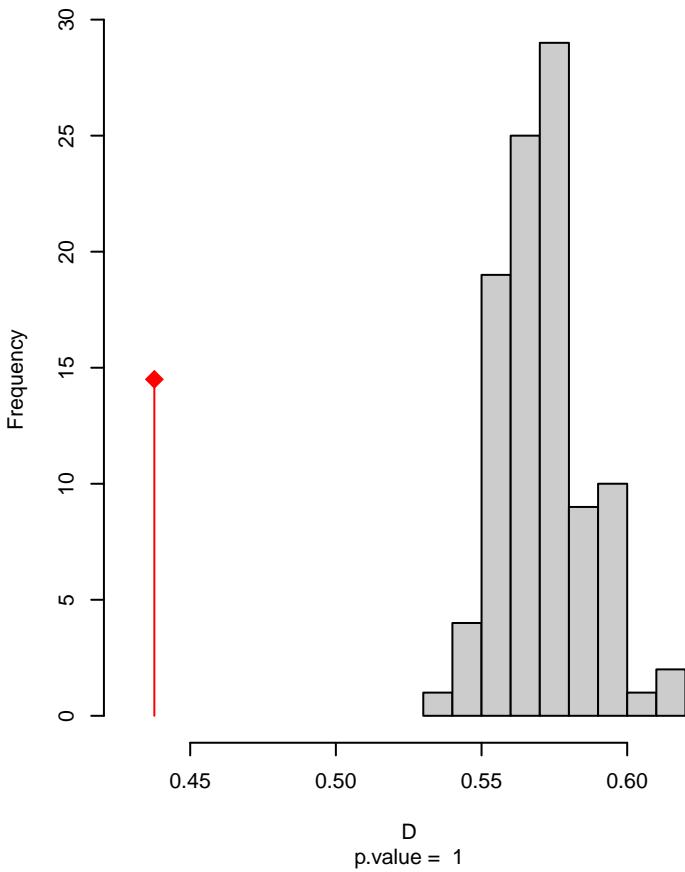
Similarity 1→2



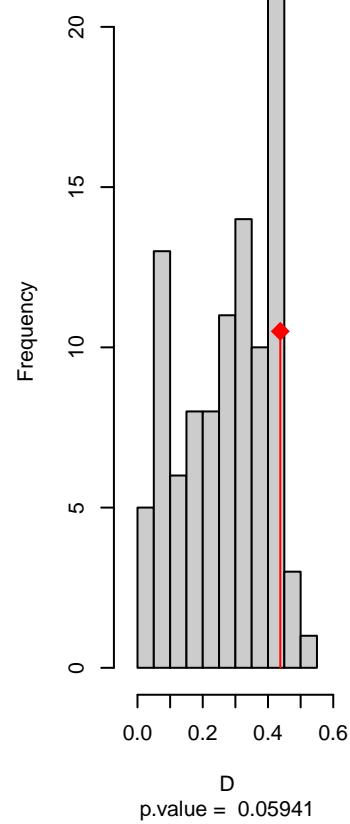
Petrochelidon_preussi seasonal overlap



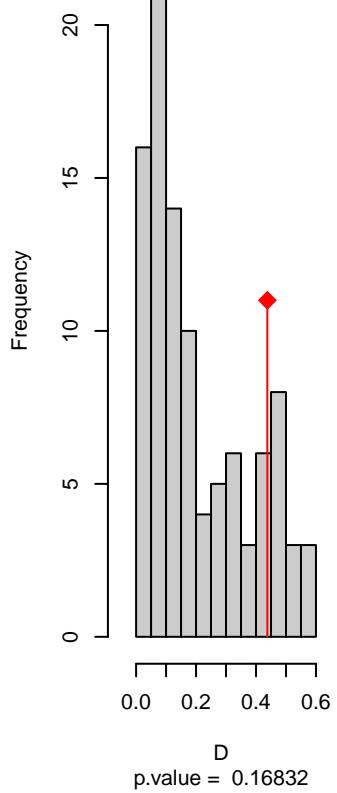
Equivalency



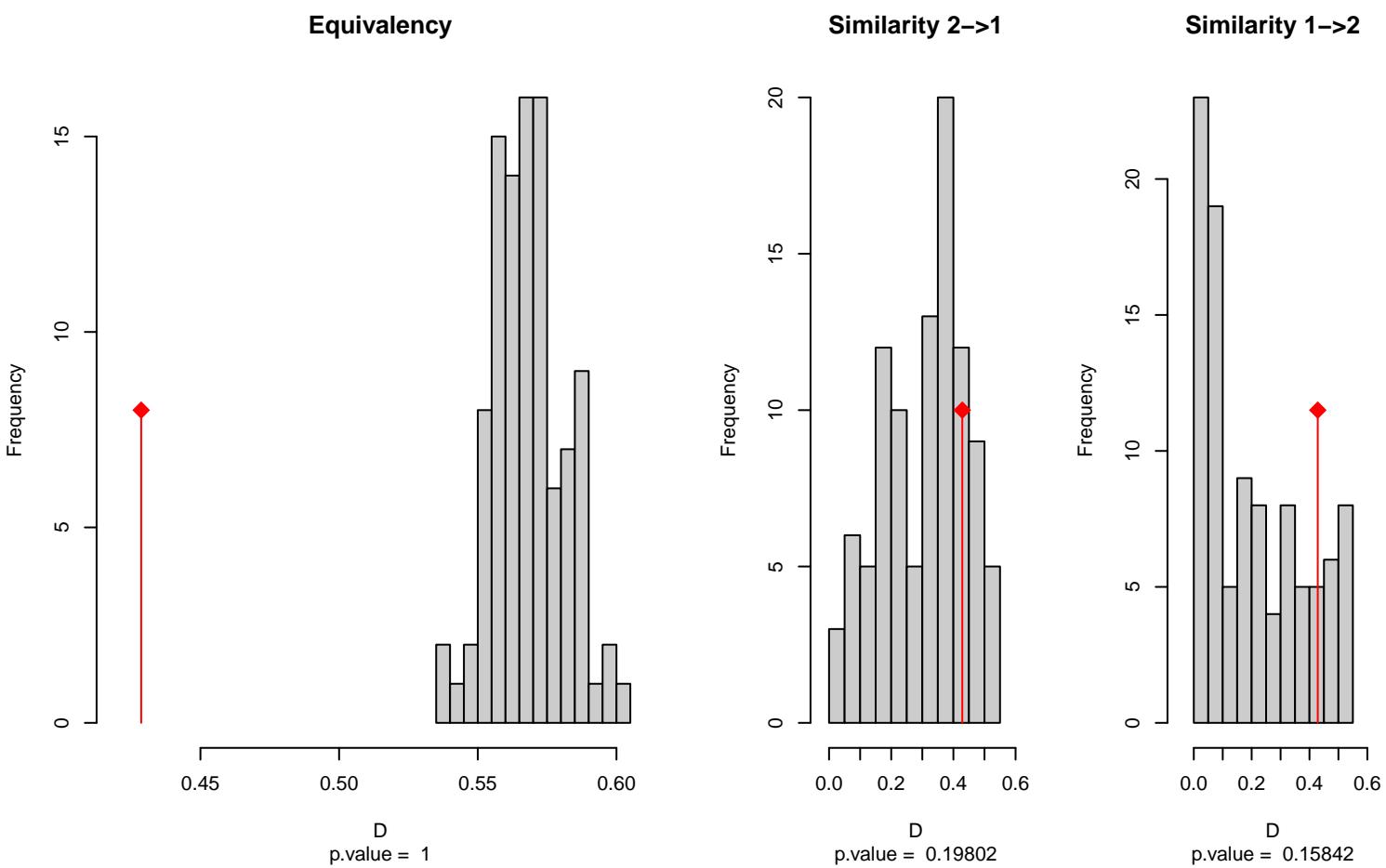
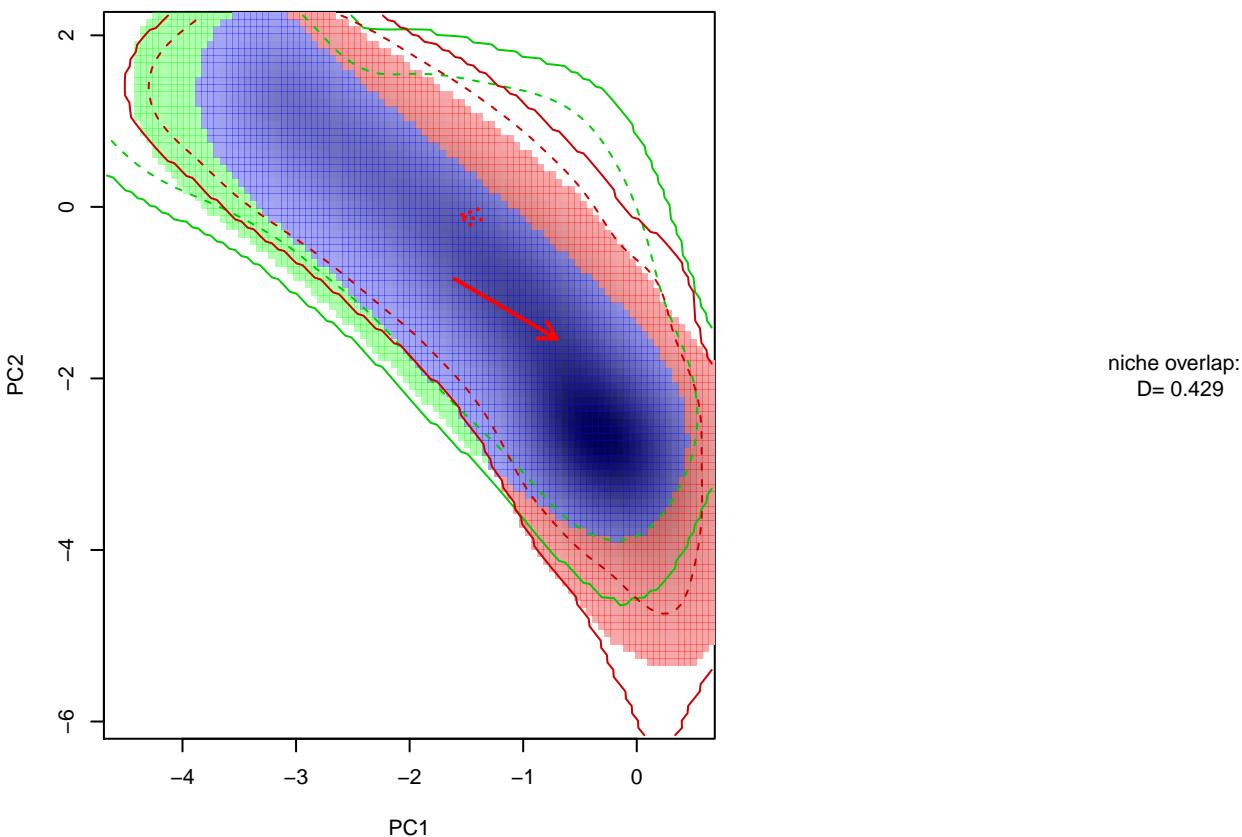
Similarity 2→1



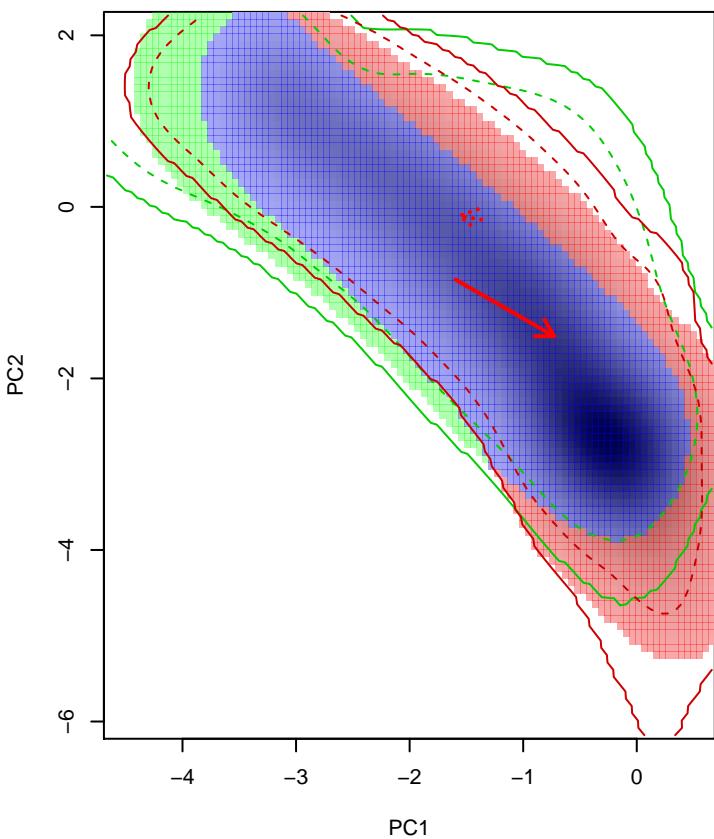
Similarity 1→2



Petrochelidon_preussi seasonal overlap-hypo.br

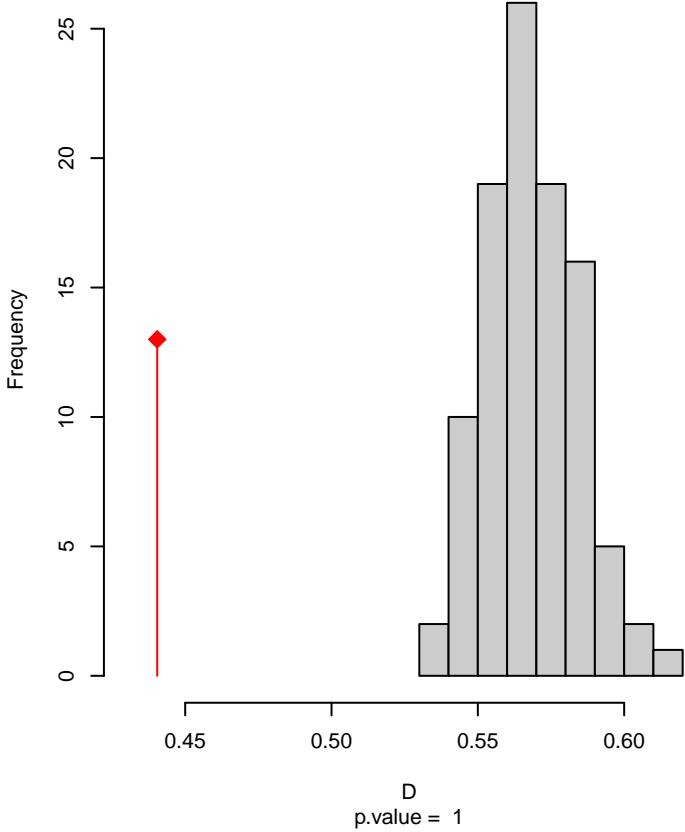


Petrochelidon_preussi seasonal overlap-hypo wi

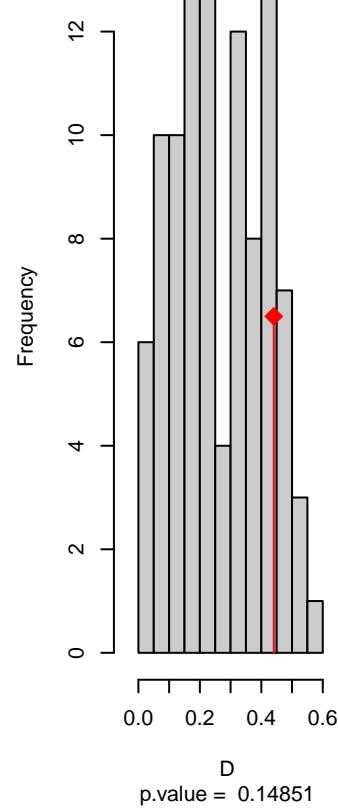


niche overlap:
 $D = 0.44$

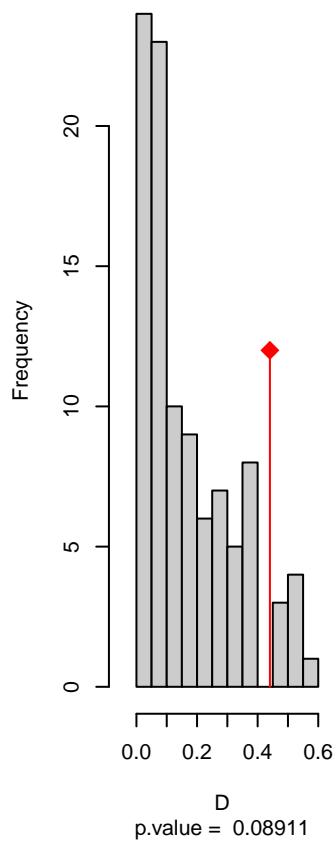
Equivalency



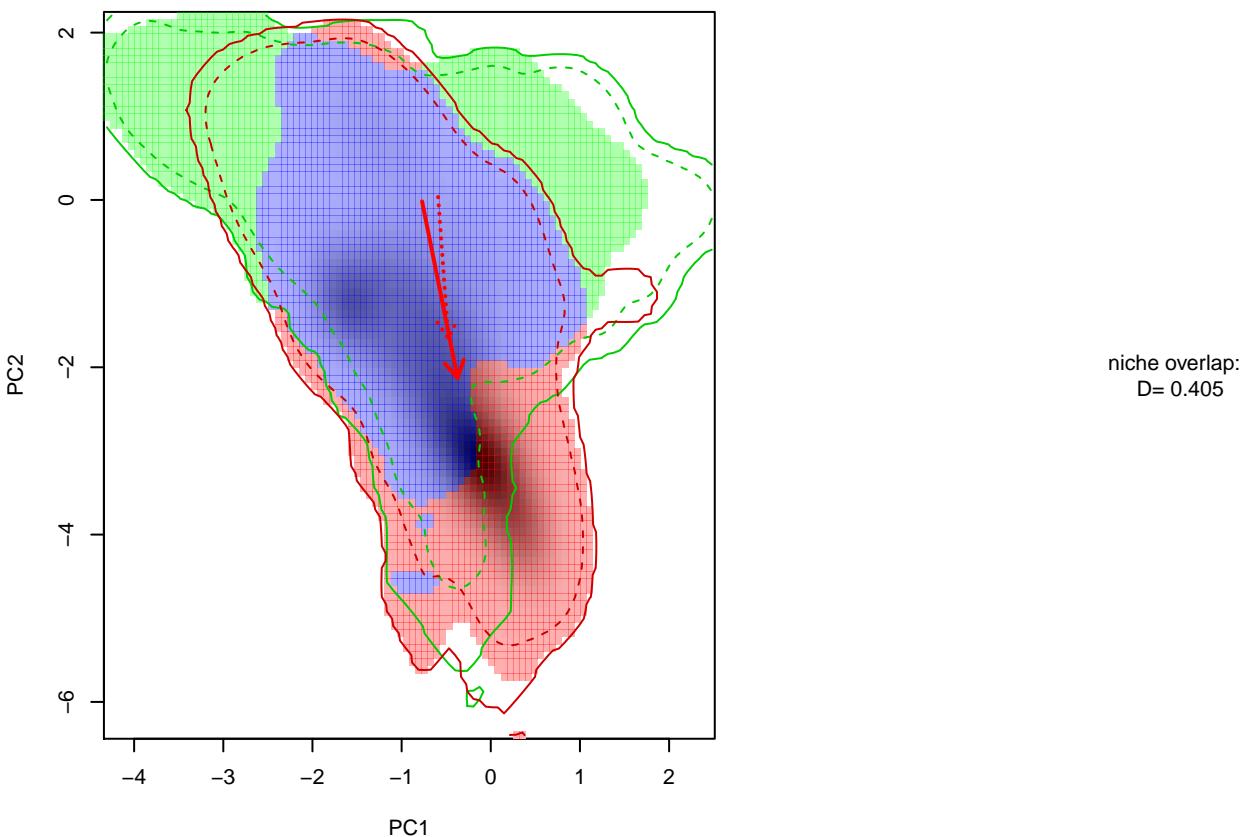
Similarity 2→1



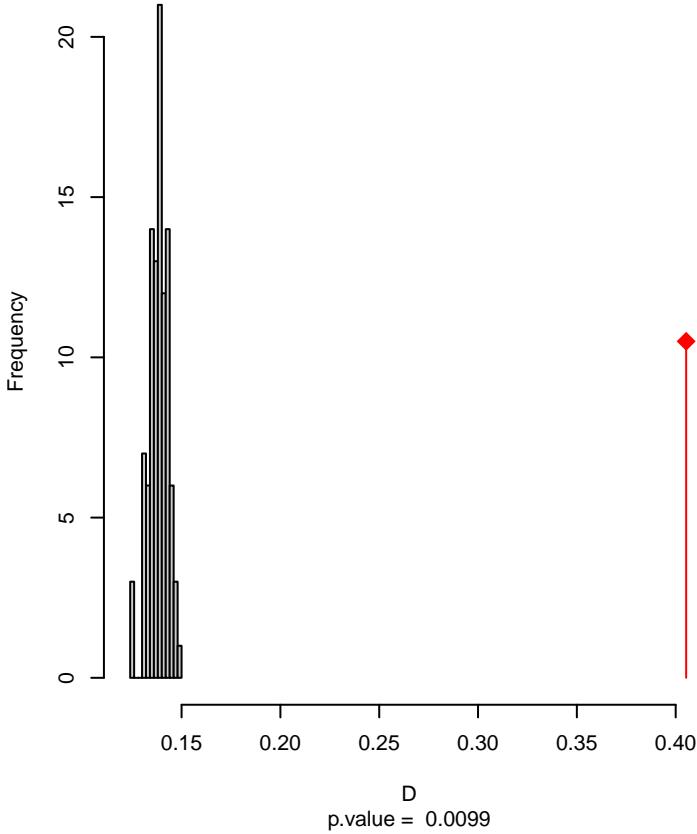
Similarity 1→2



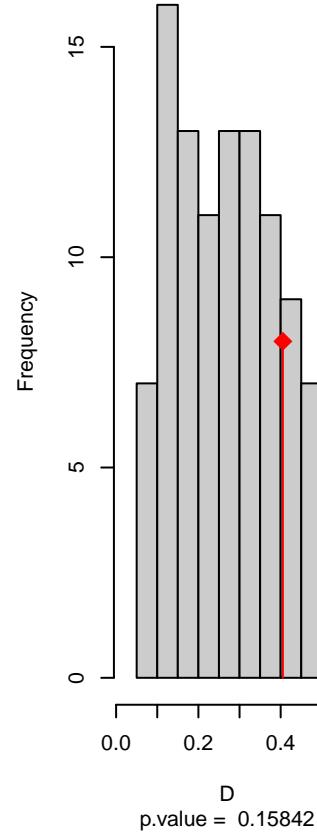
Petrochelidon_pyrrhonota seasonal overlap



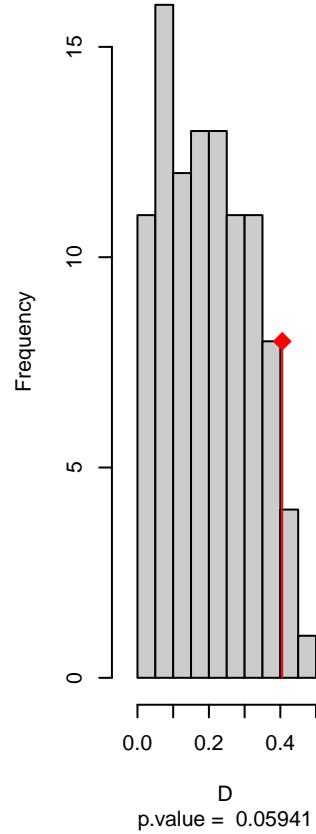
Equivalency



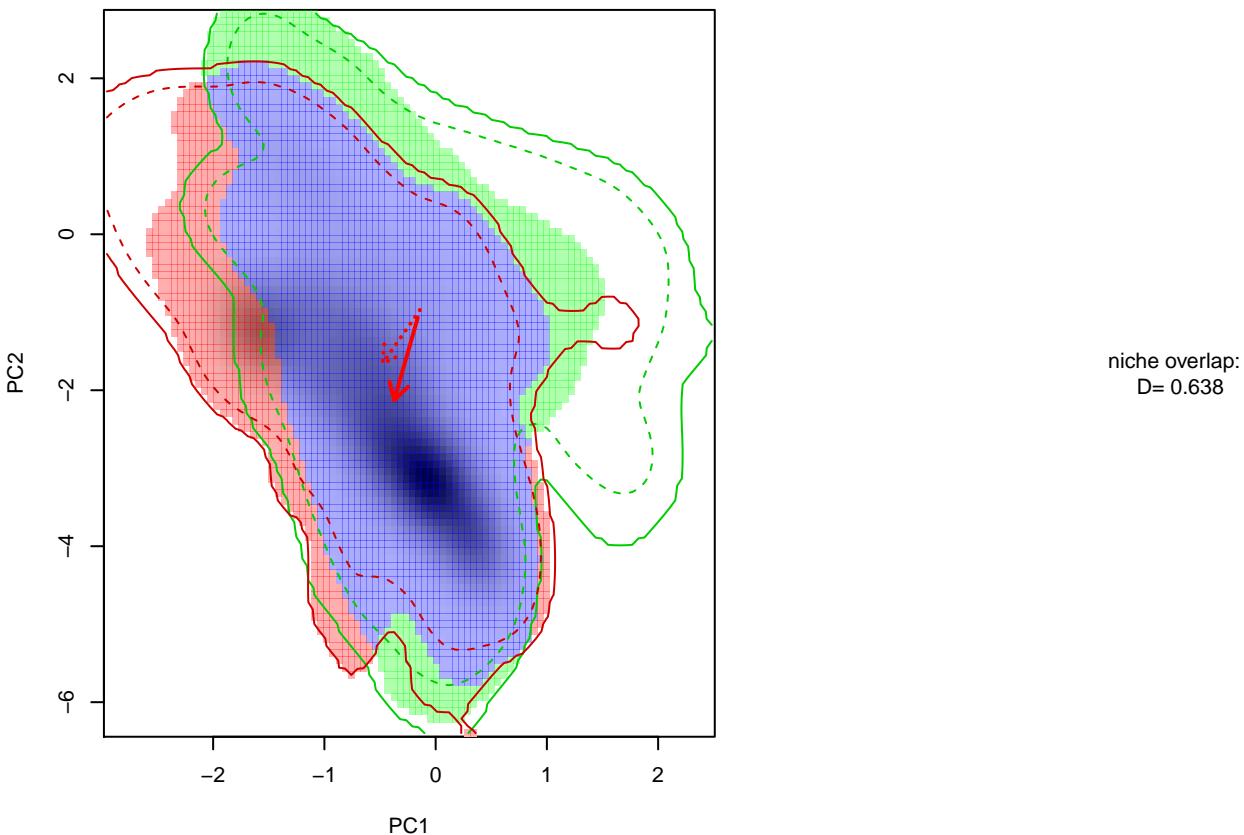
Similarity 2→1



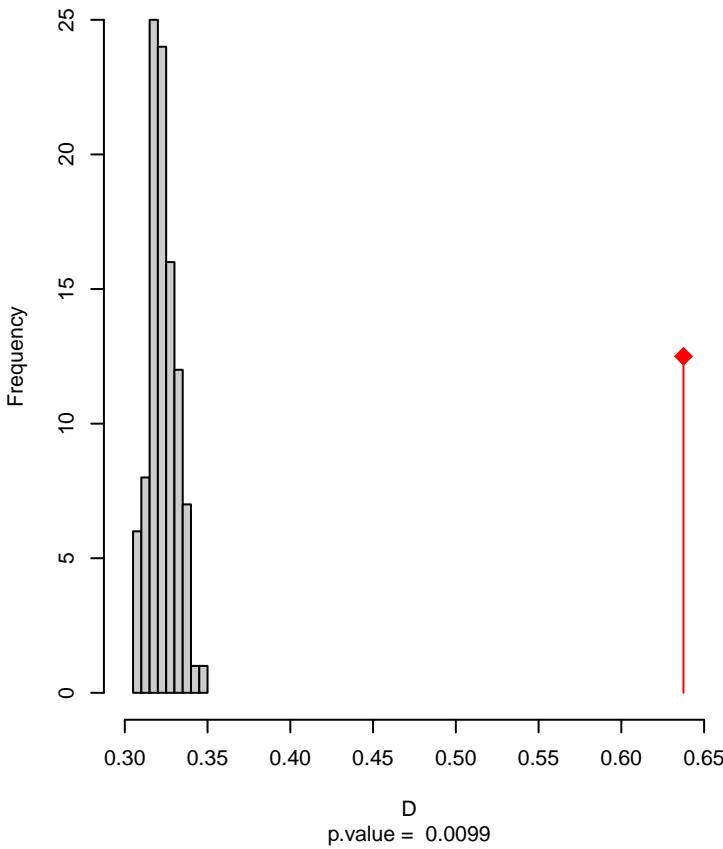
Similarity 1→2



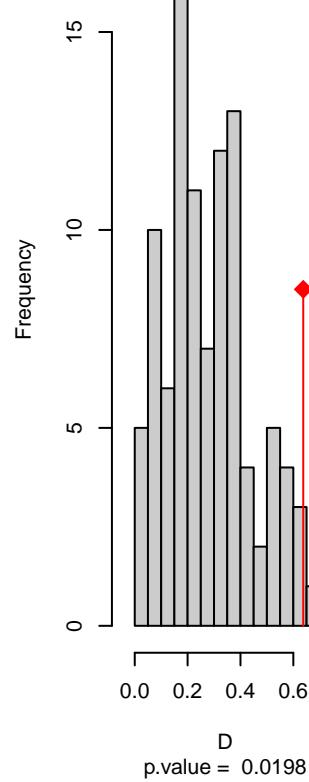
Petrochelidon_pyrrhonota seasonal overlap-hypo.br



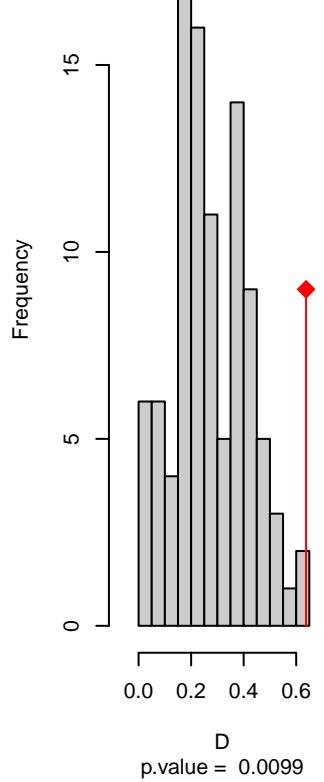
Equivalency



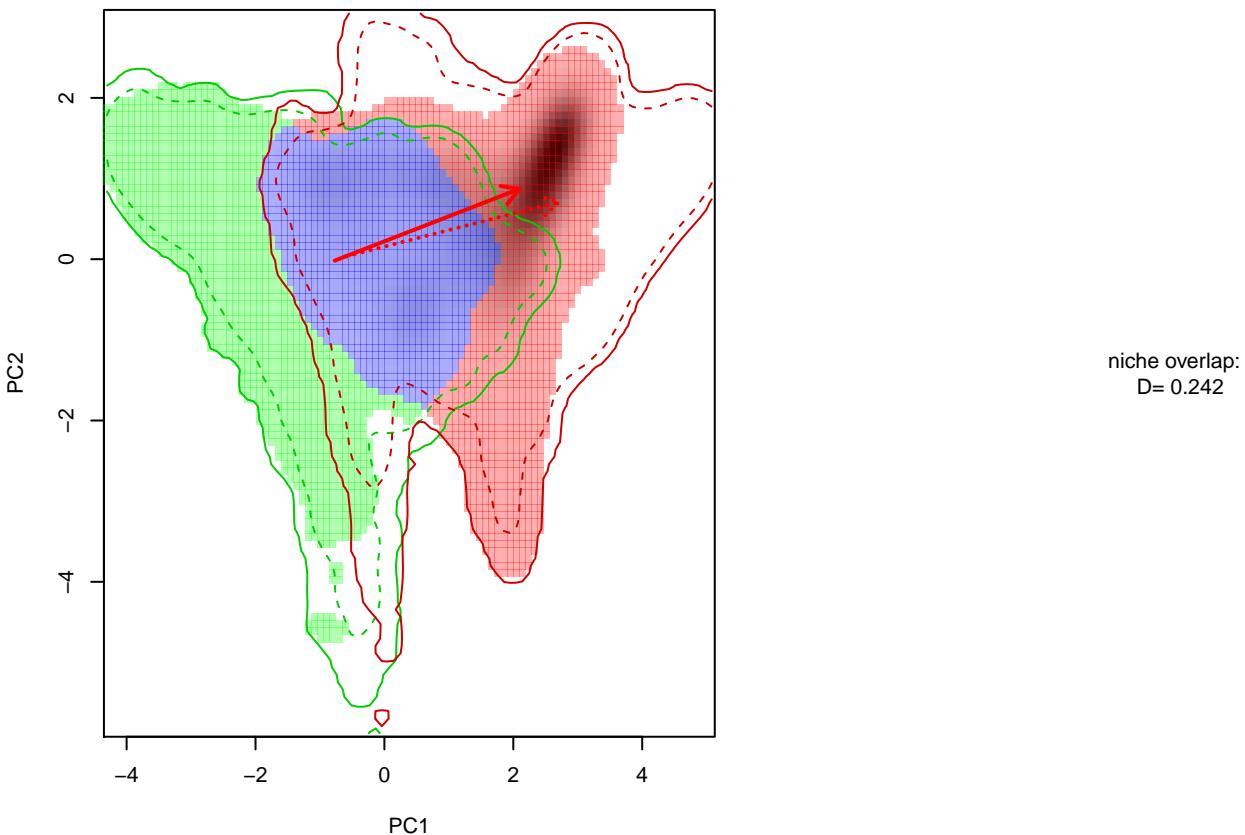
Similarity 2→1



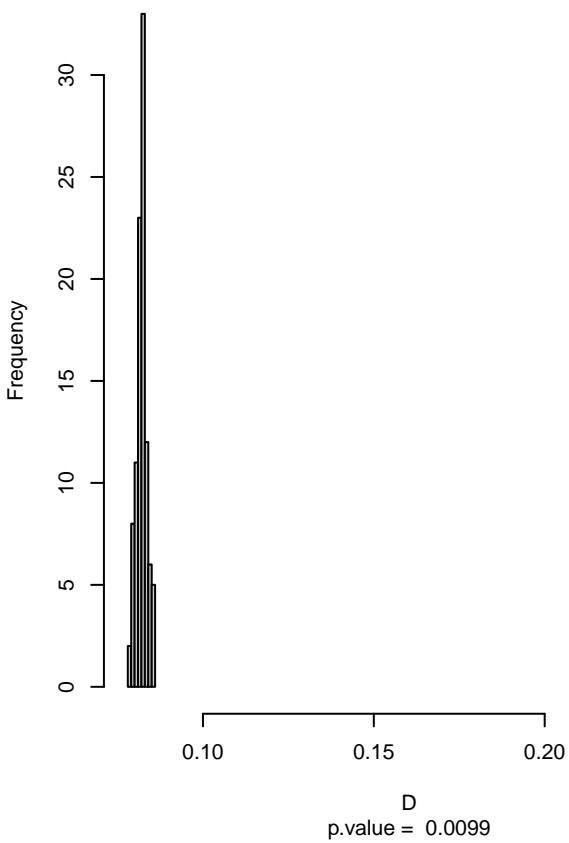
Similarity 1→2



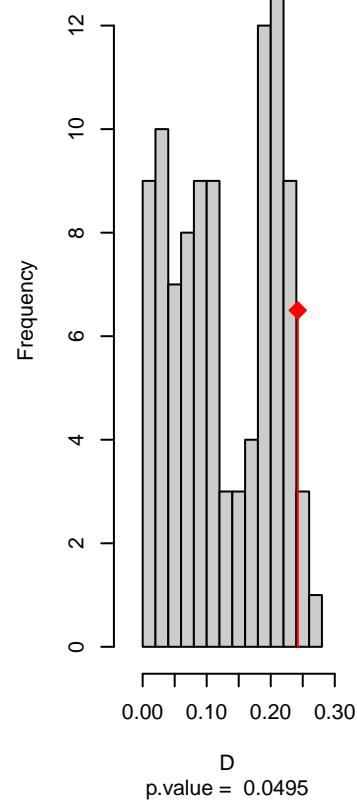
Petrochelidon_pyrrhonota seasonal overlap-hypo wi



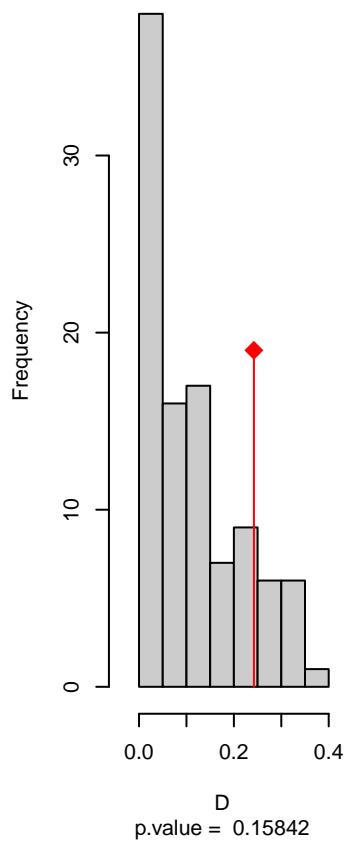
Equivalency



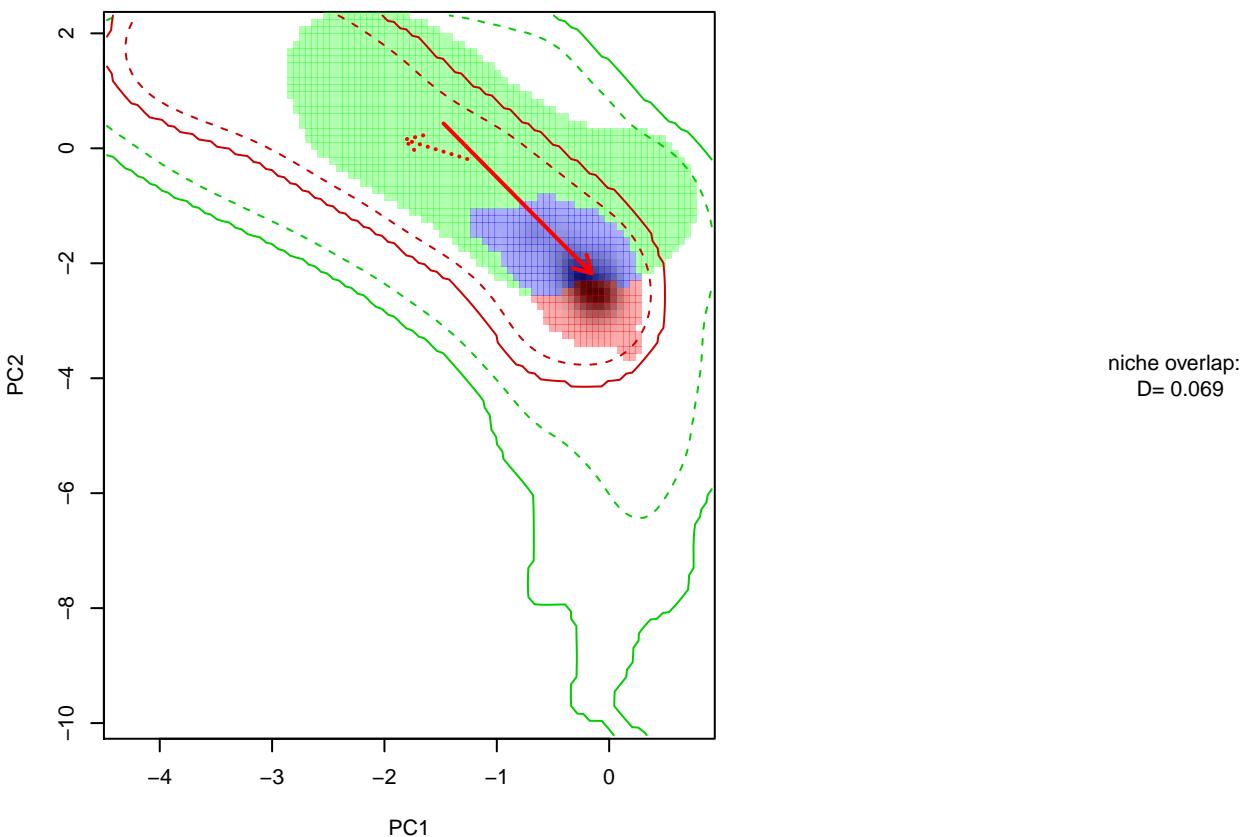
Similarity 2→1



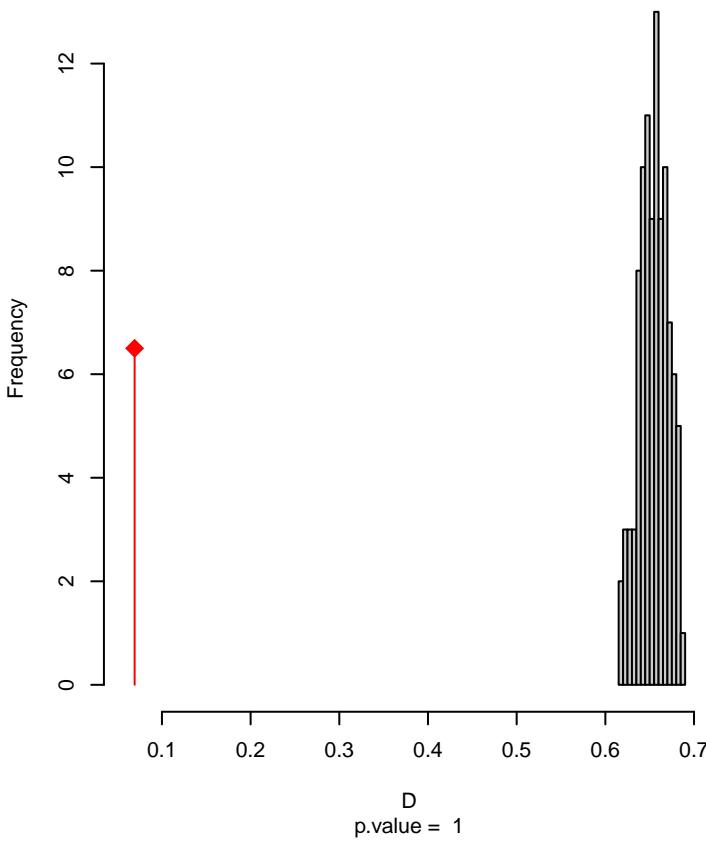
Similarity 1→2



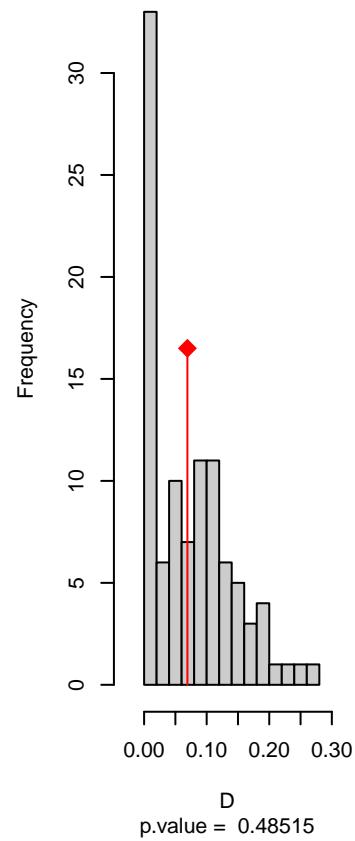
Petrochelidon_rufigula seasonal overlap



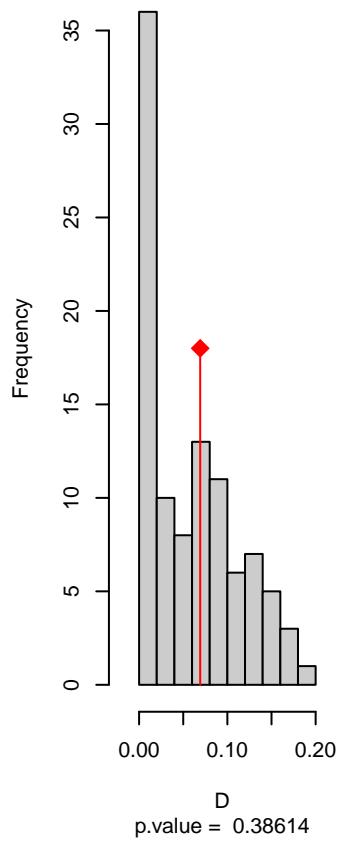
Equivalency



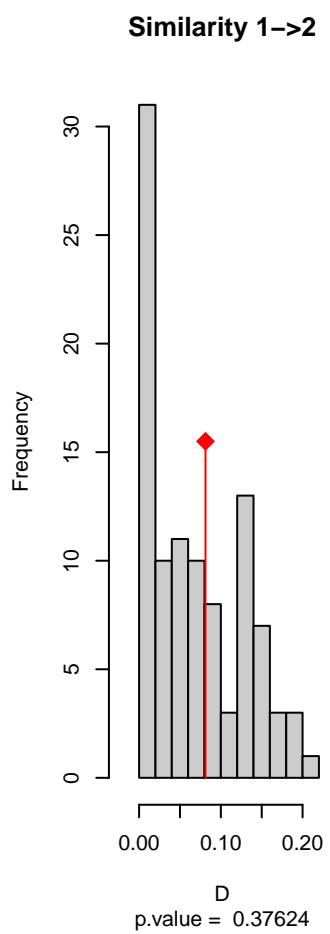
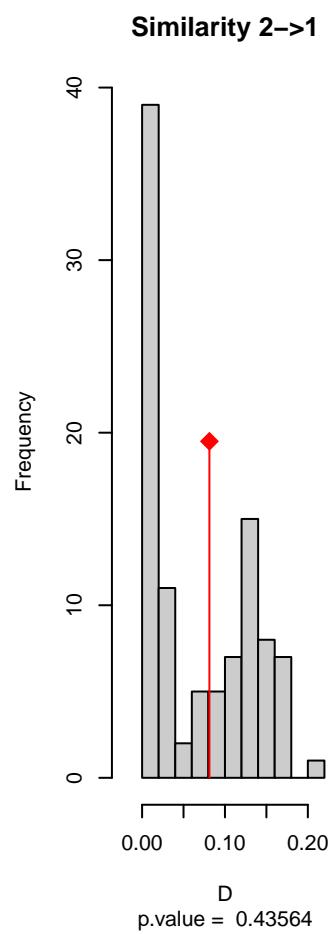
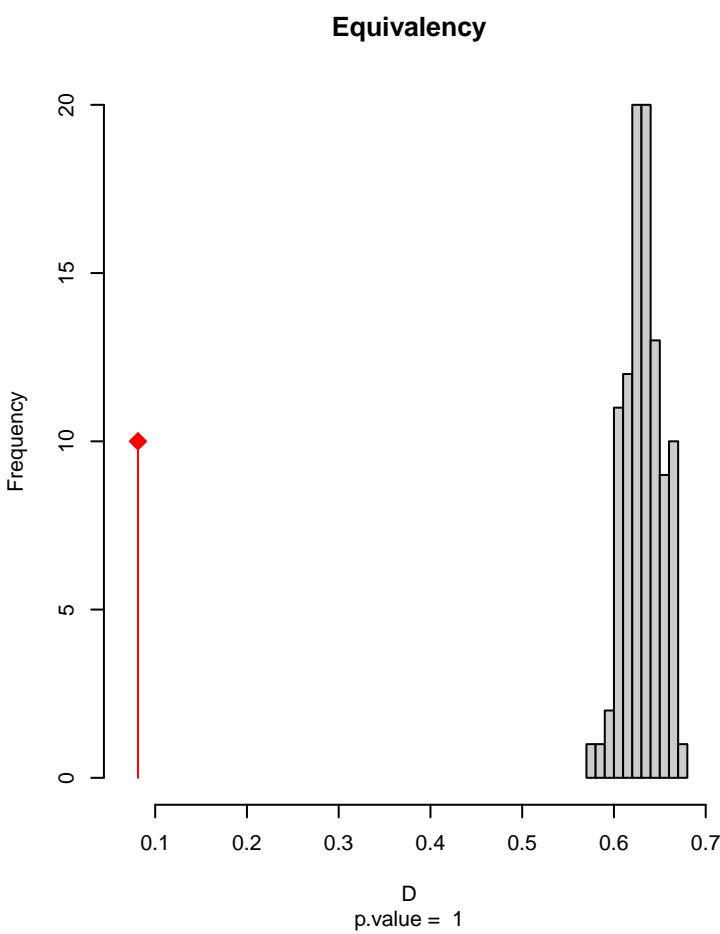
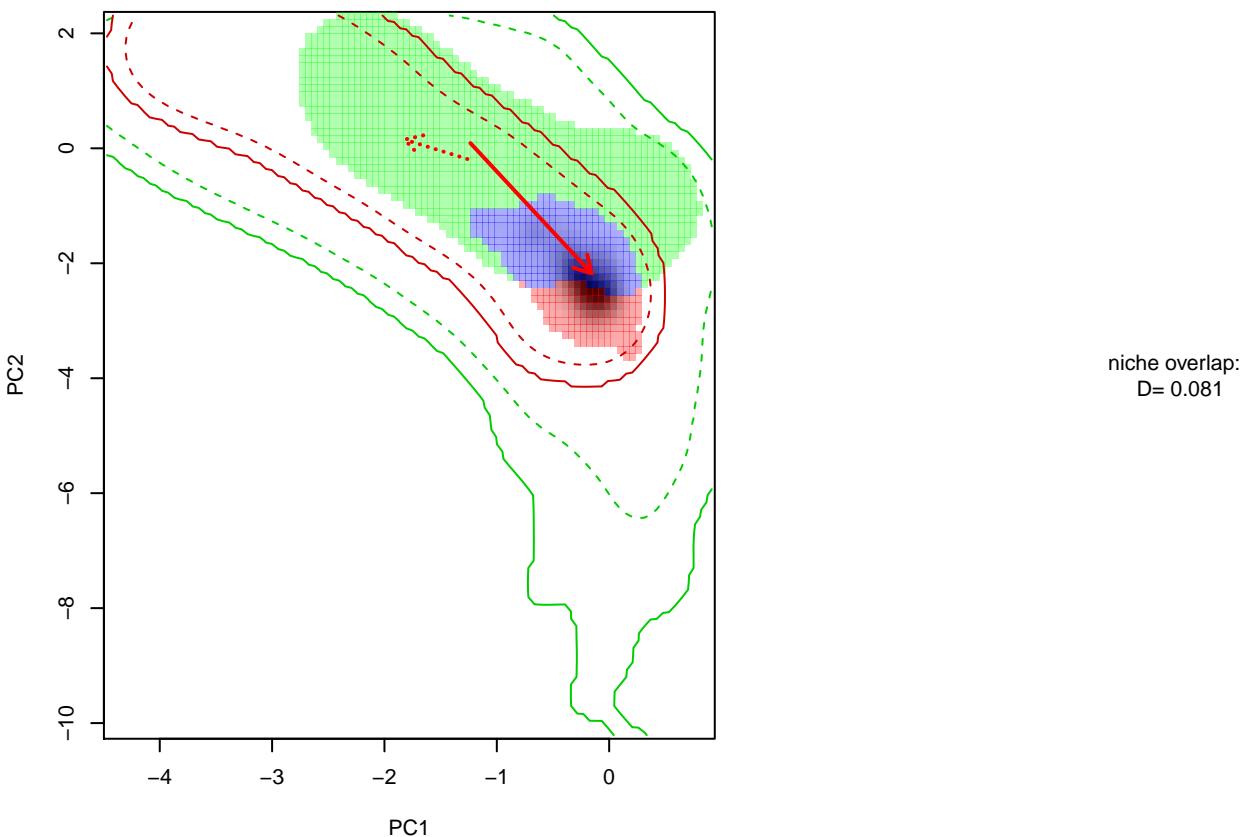
Similarity 2→1



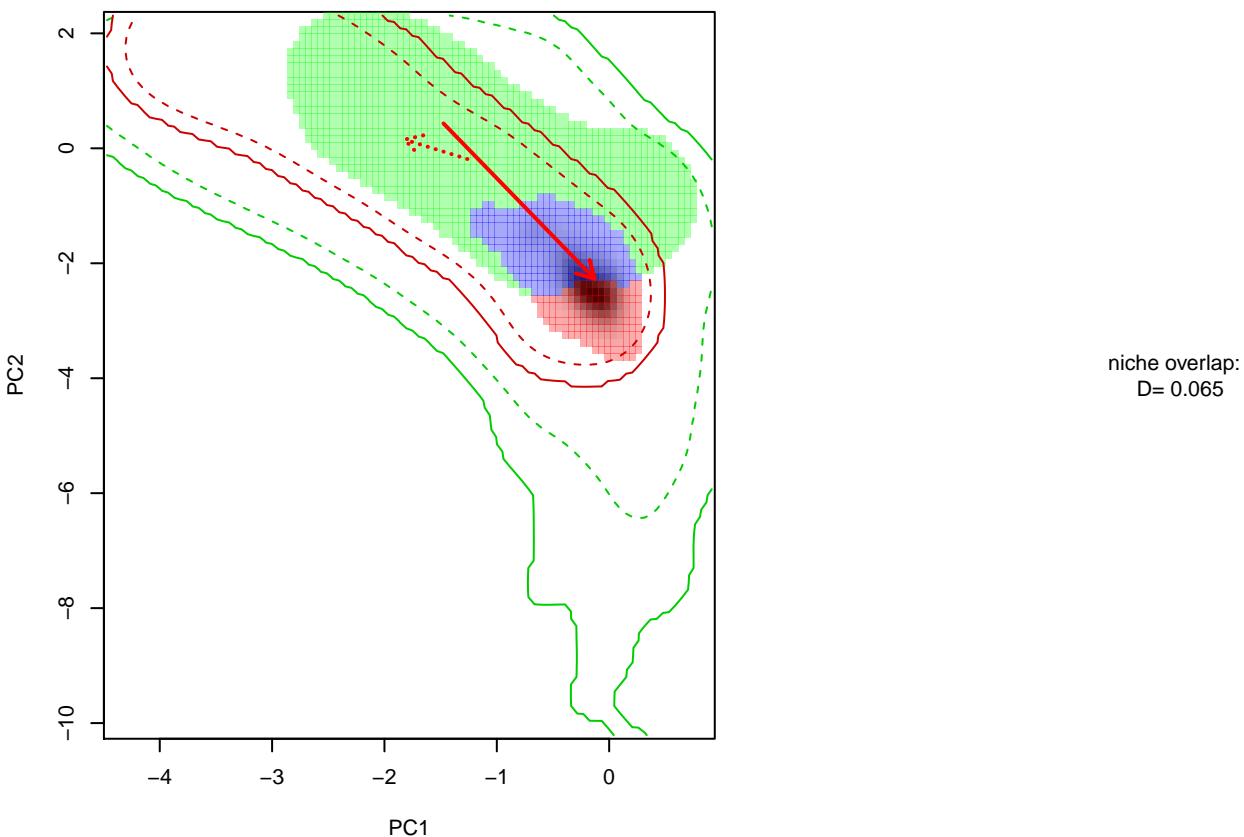
Similarity 1→2



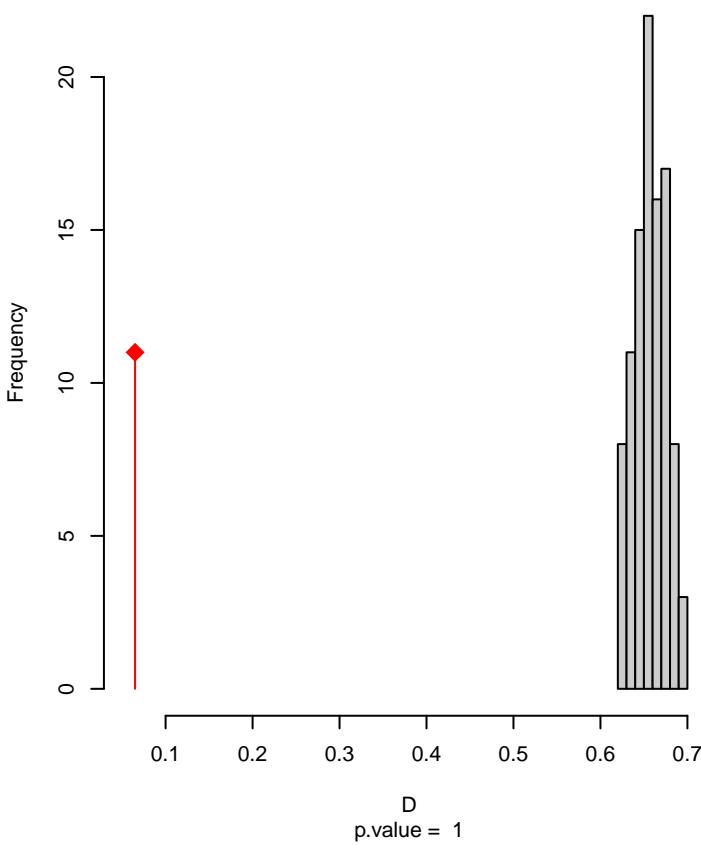
Petrochelidon_rufigula seasonal overlap–hypo.br



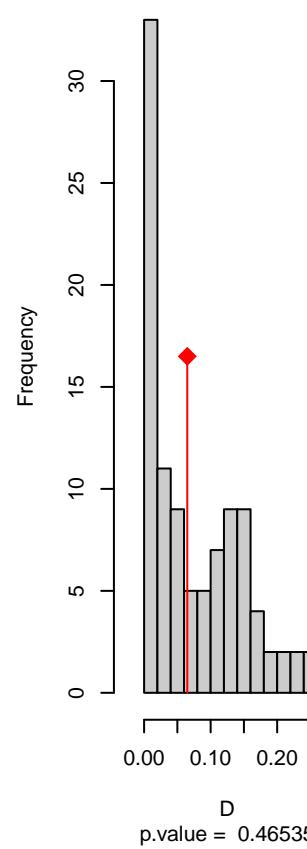
Petrochelidon_rufigula seasonal overlap–hypo wi



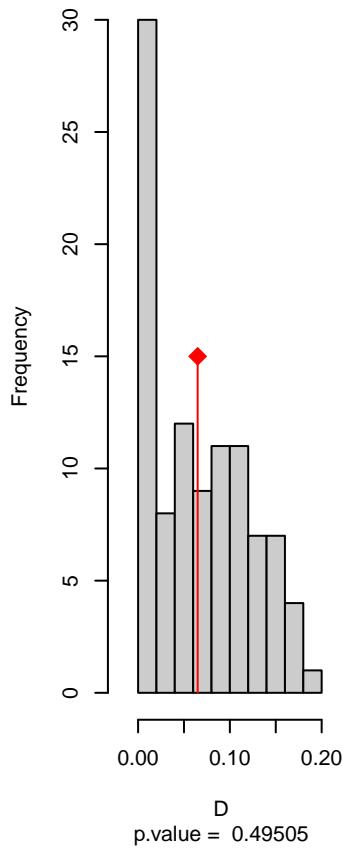
Equivalency



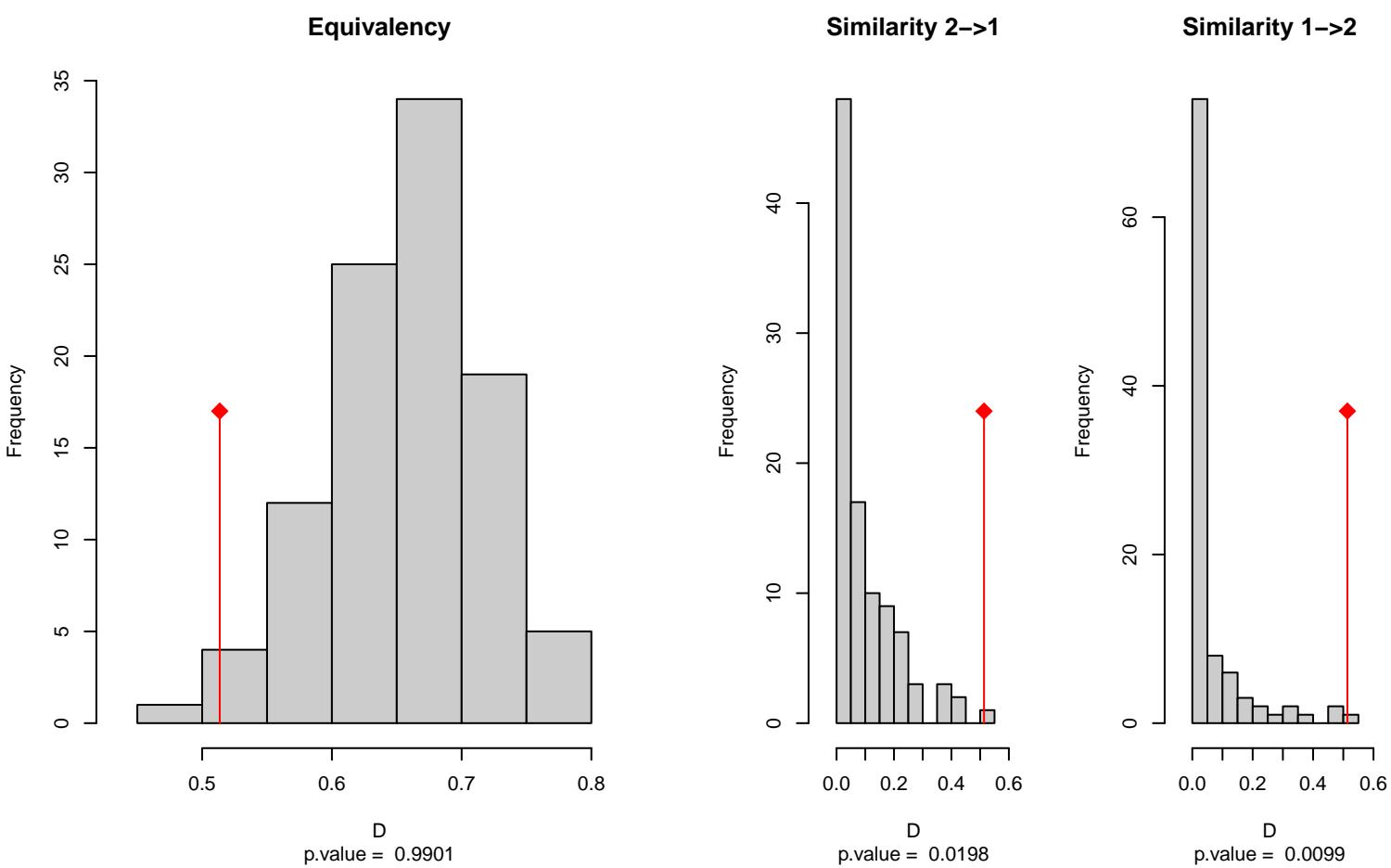
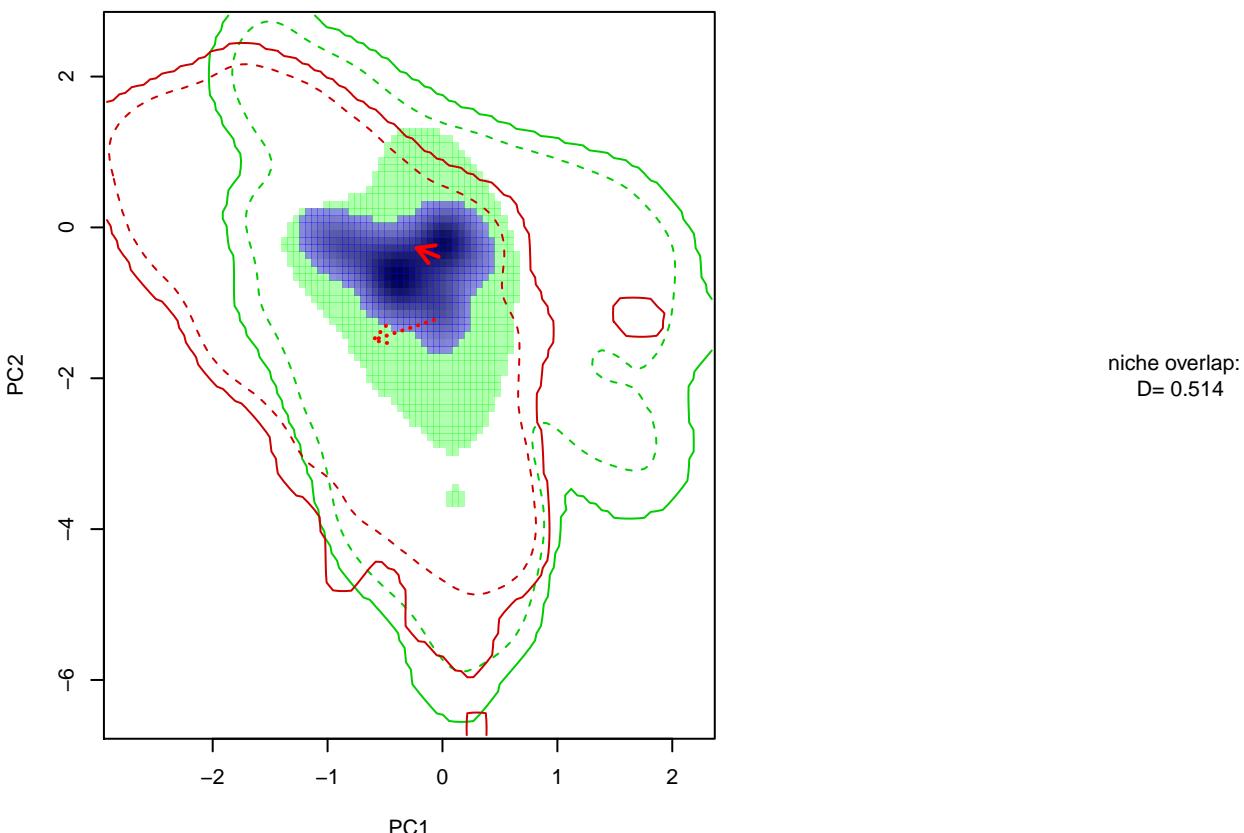
Similarity 2→1



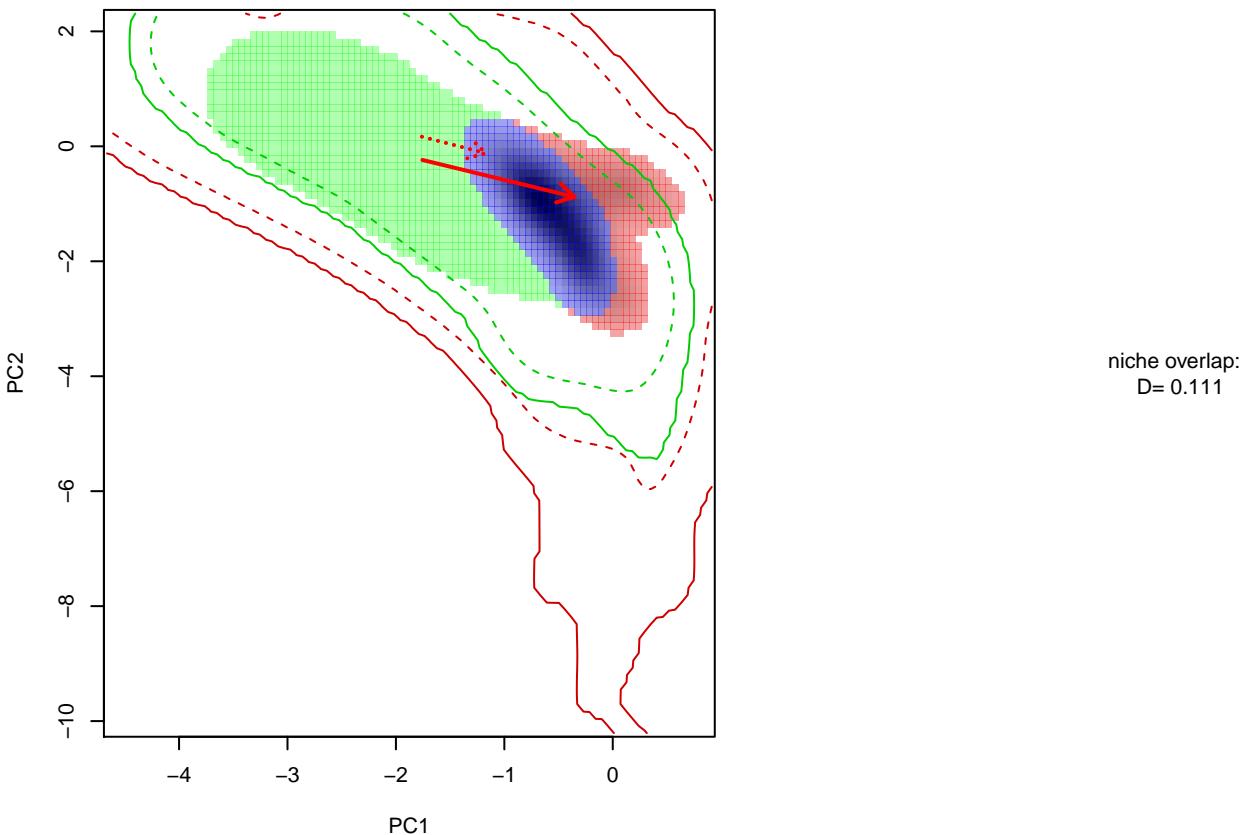
Similarity 1→2



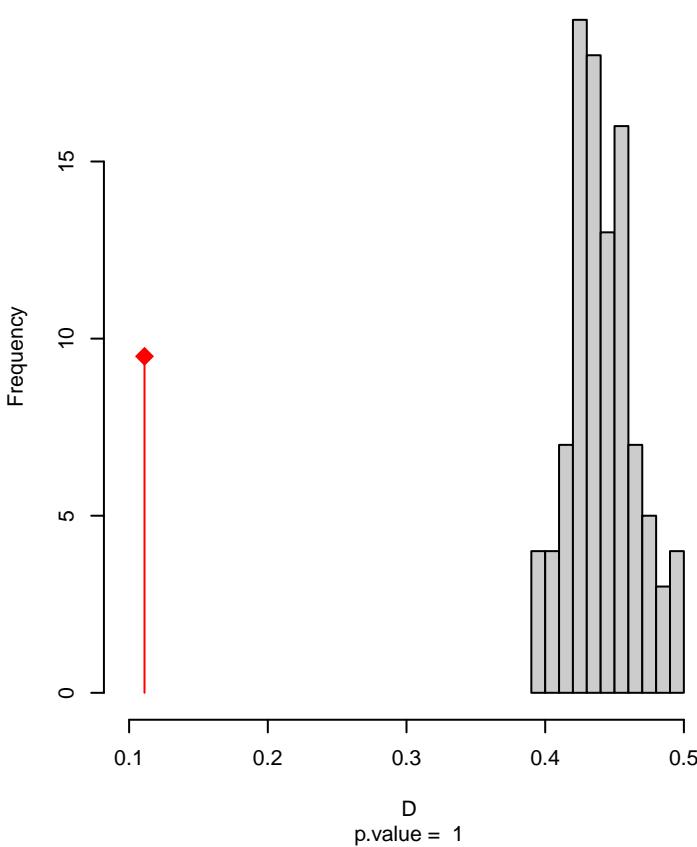
Petrochelidon_rufocollaris seasonal overlap



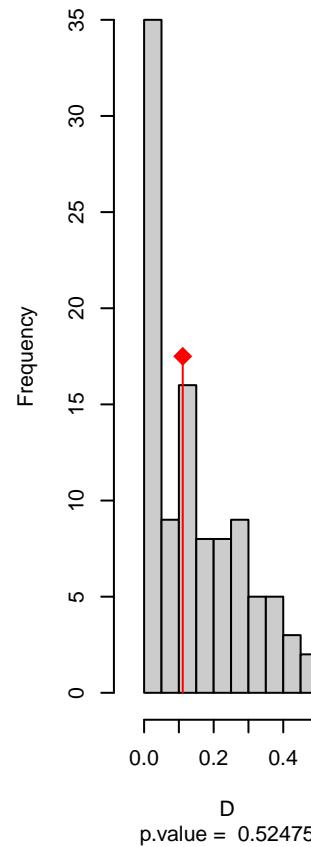
Petrochelidon_spilodera seasonal overlap



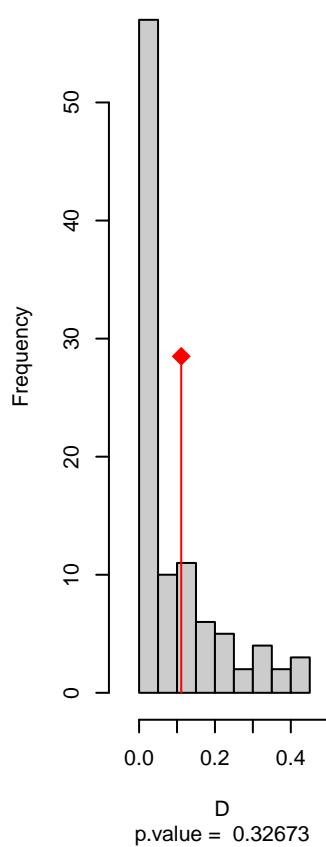
Equivalency



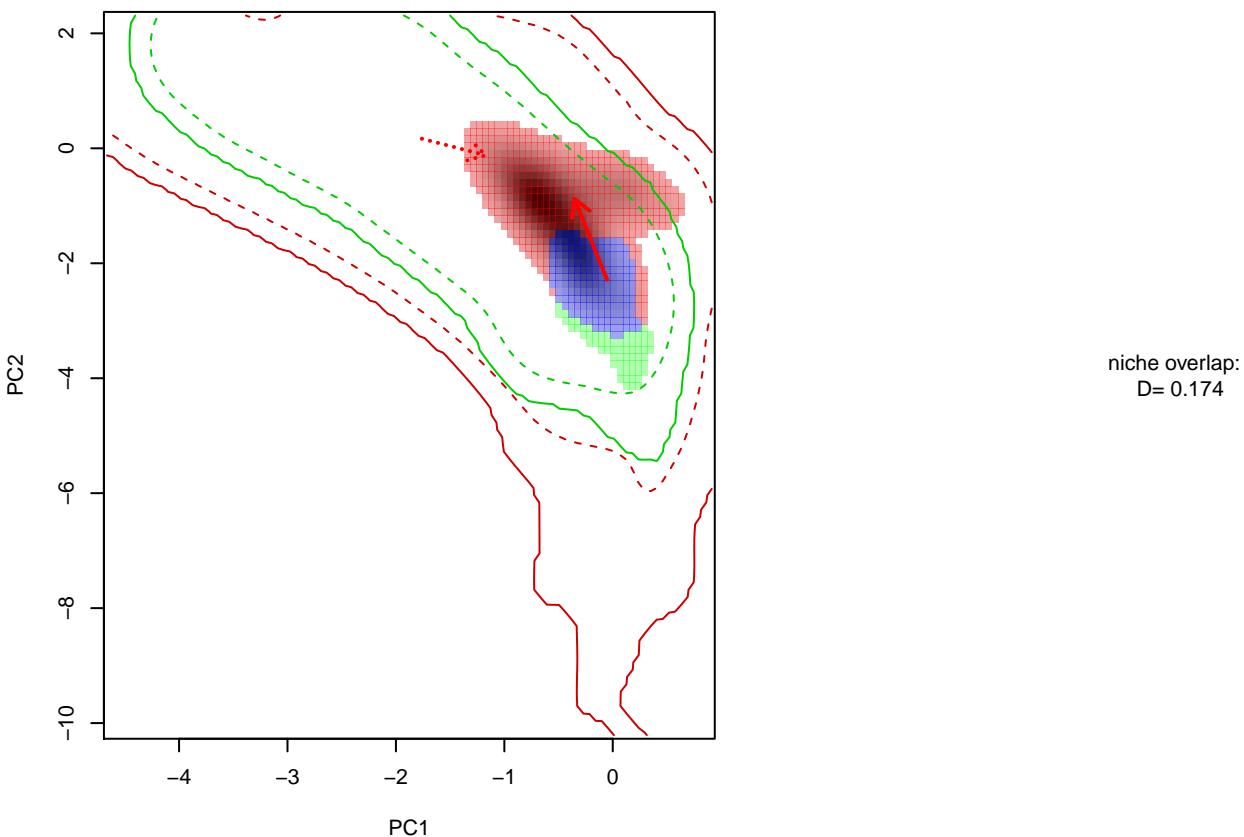
Similarity 2→1



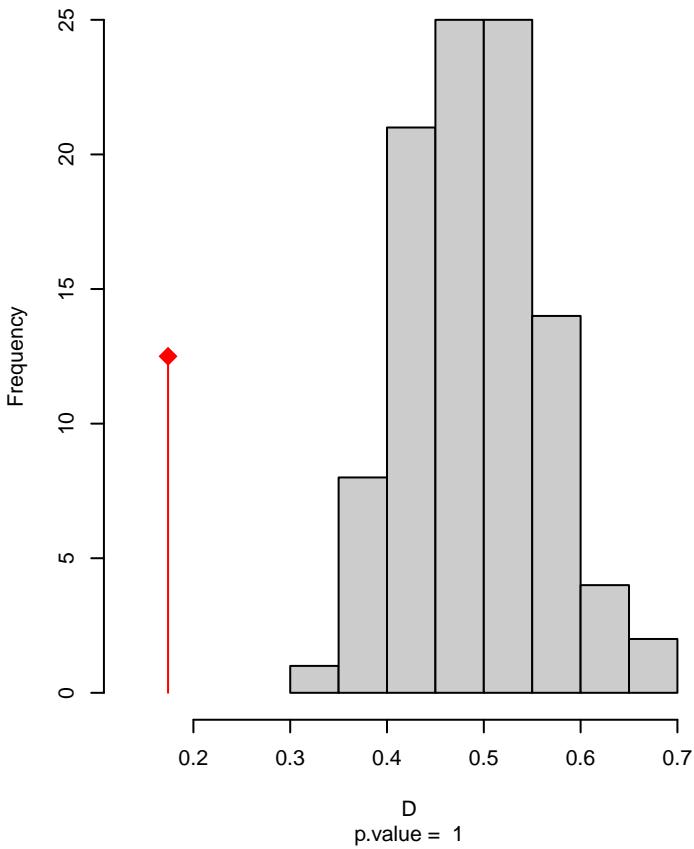
Similarity 1→2



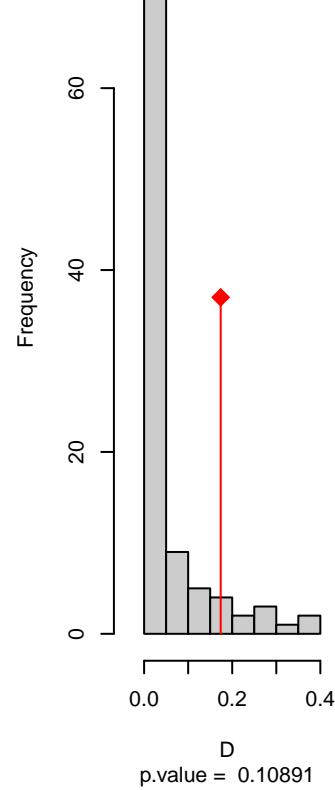
Petrochelidon_spilodera seasonal overlap-hypo.br



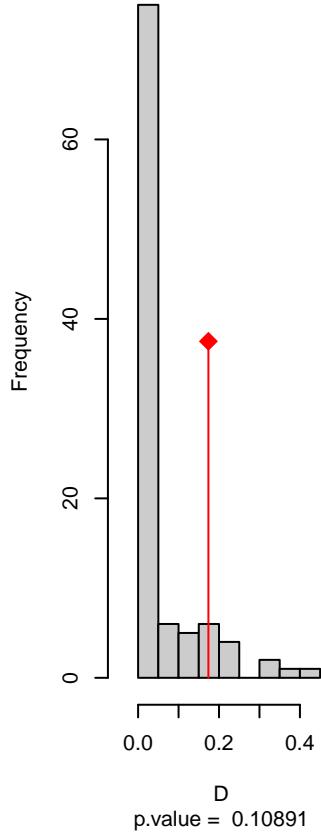
Equivalency



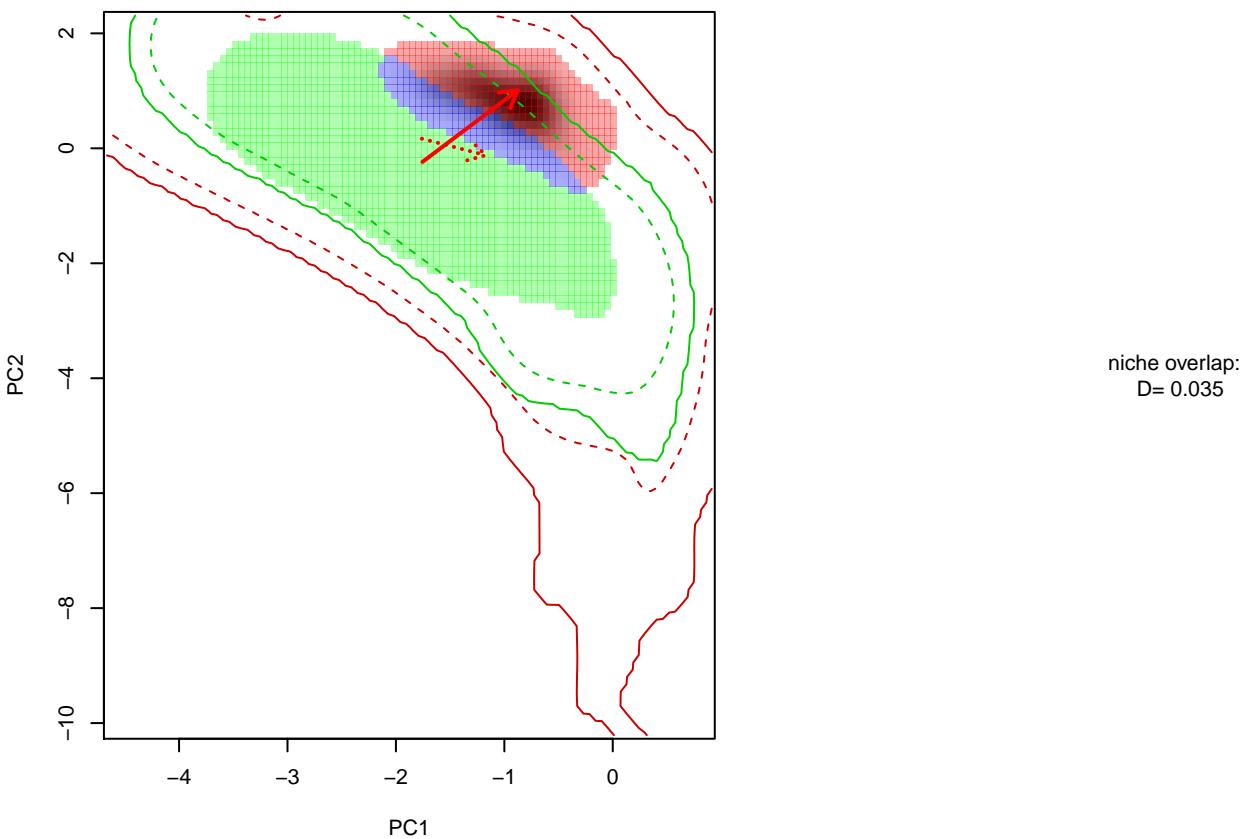
Similarity 2→1



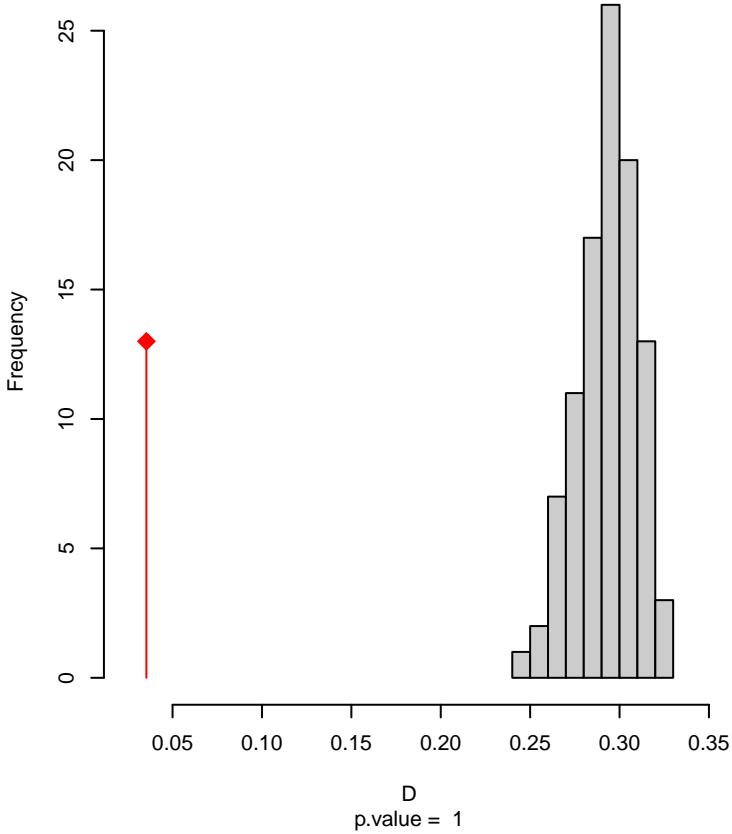
Similarity 1→2



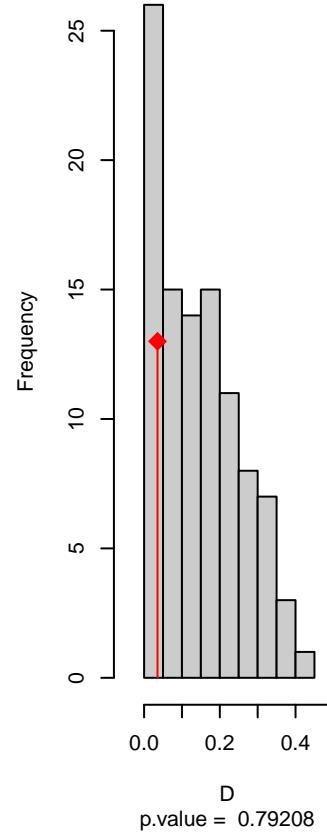
Petrochelidon_spilogaster seasonal overlap-hypo wi



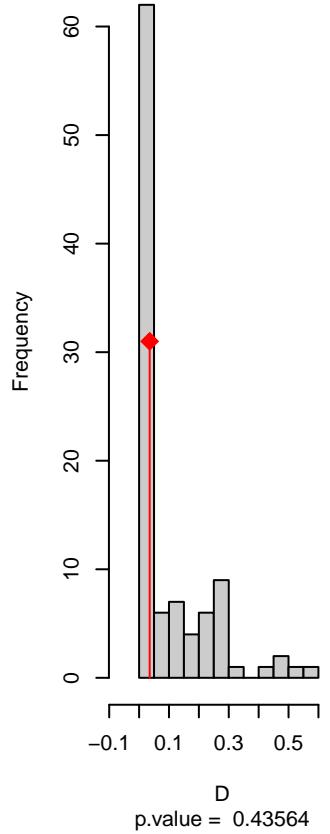
Equivalency



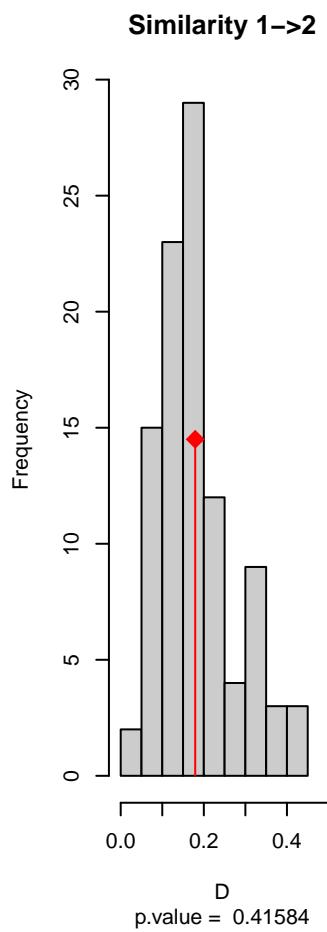
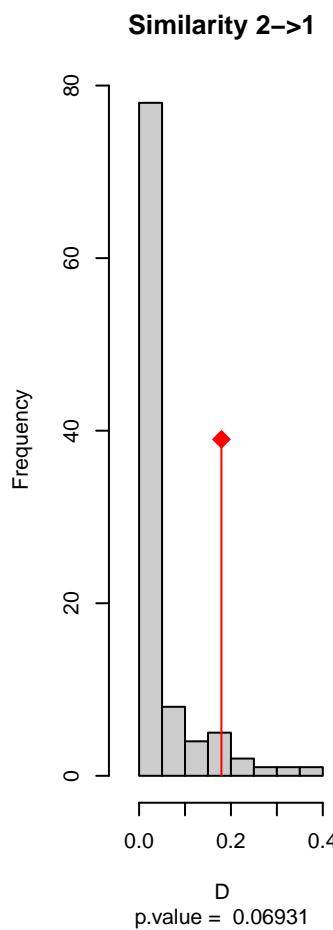
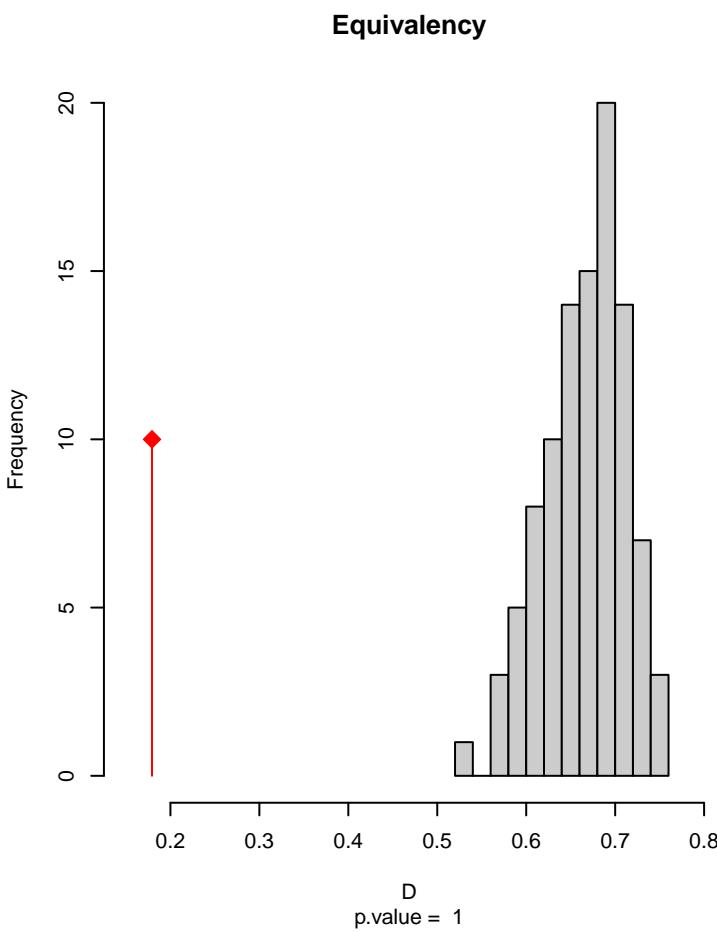
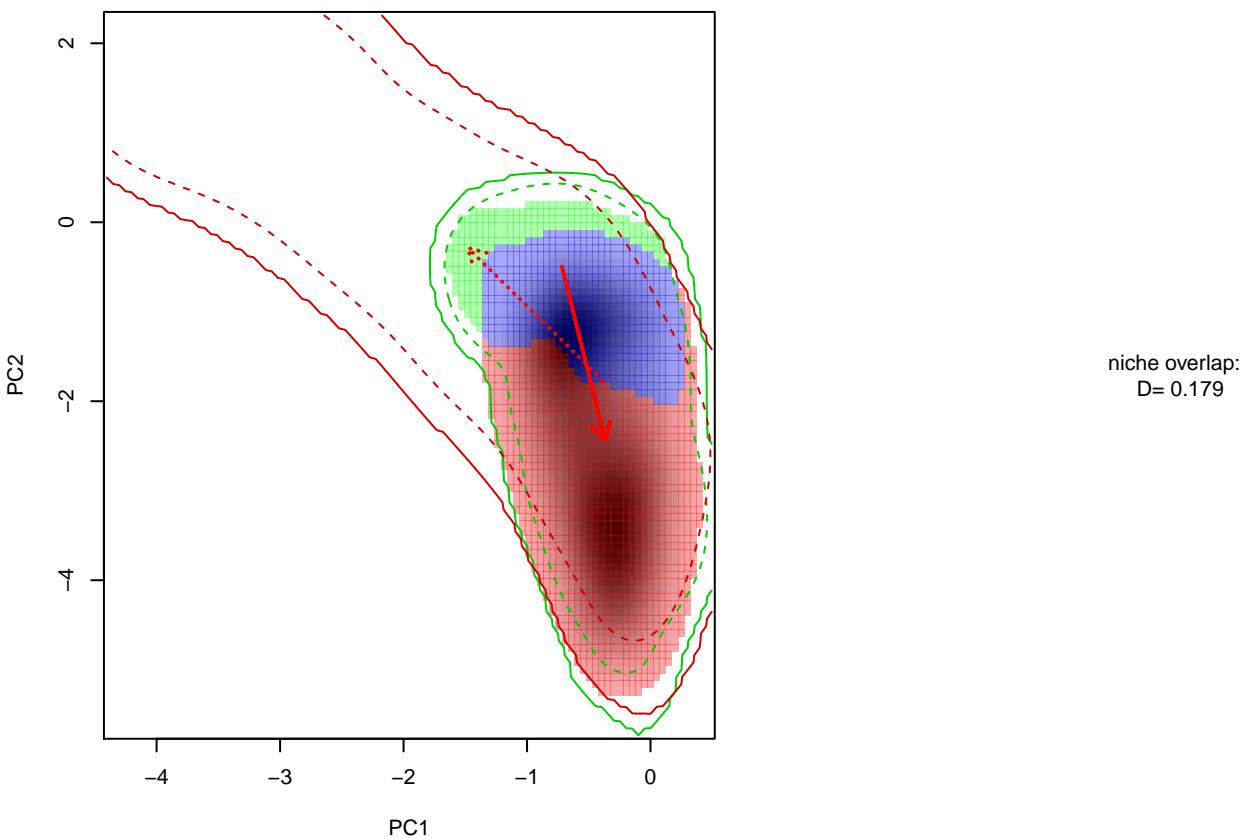
Similarity 2->1



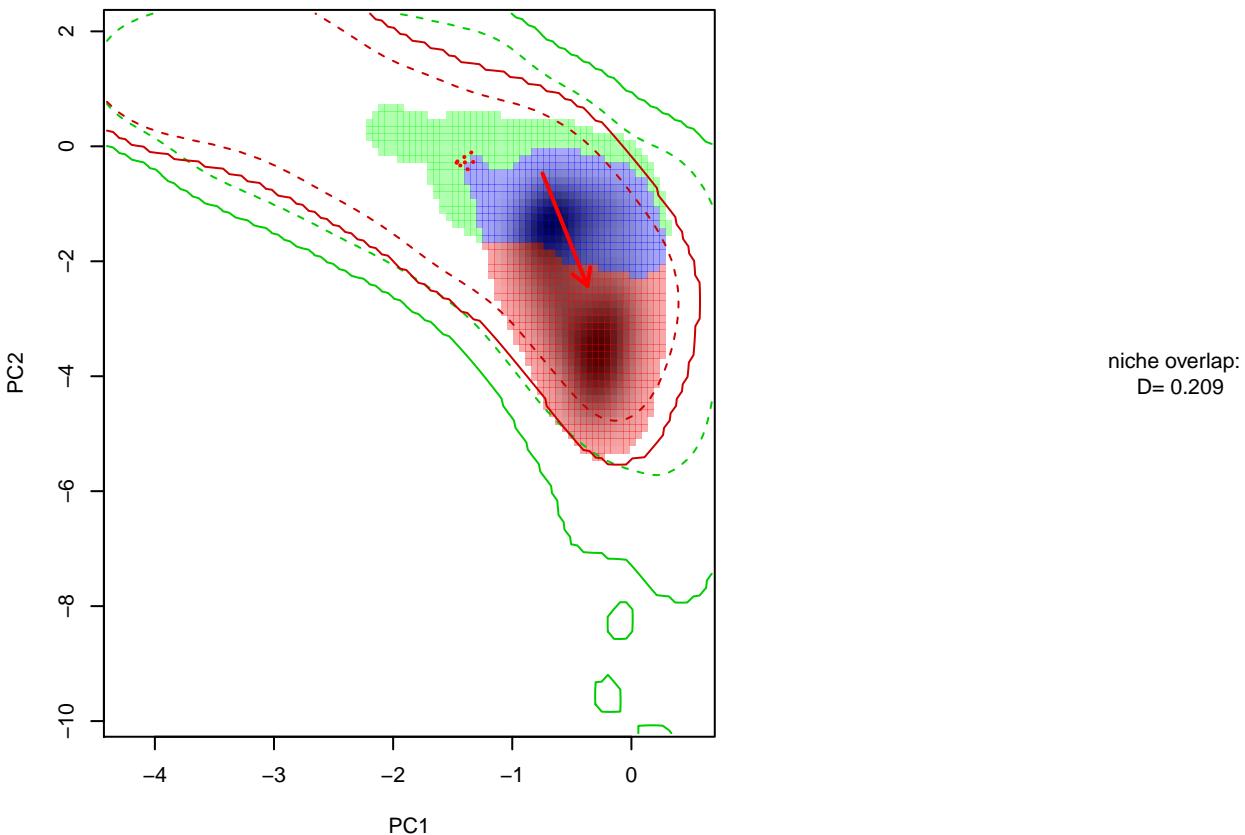
Similarity 1->2



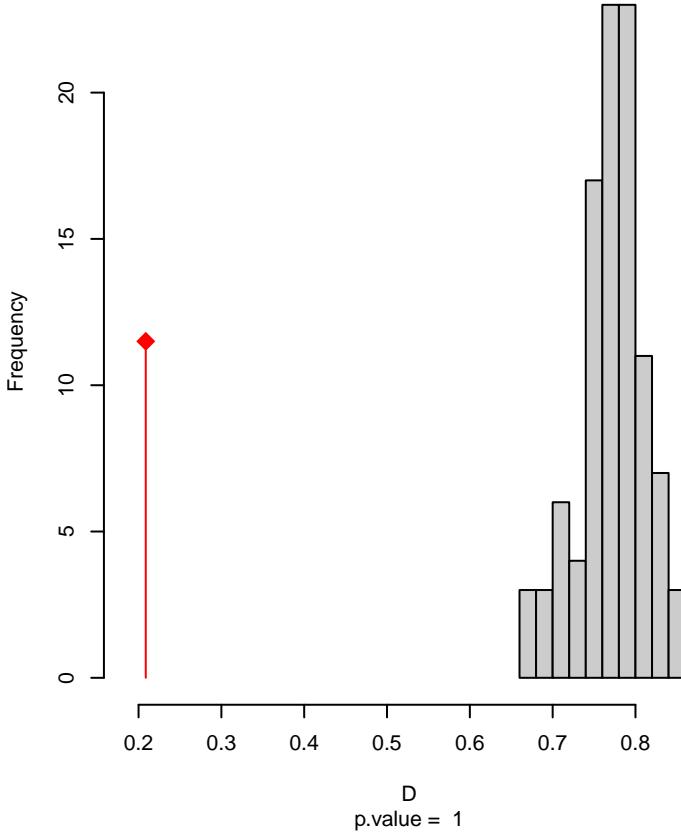
Phedina_borbonica seasonal overlap



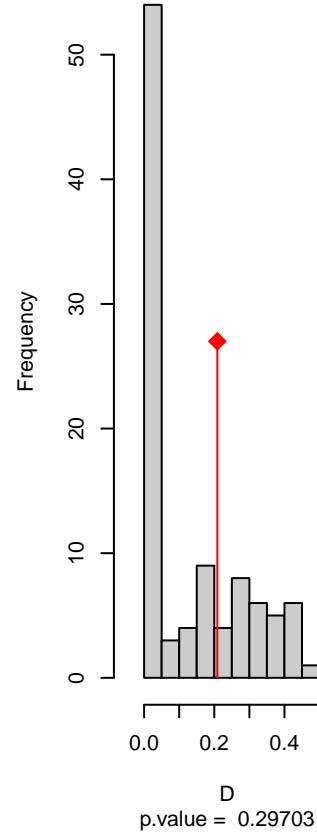
Phedina_borbonica seasonal overlap-hypo.br



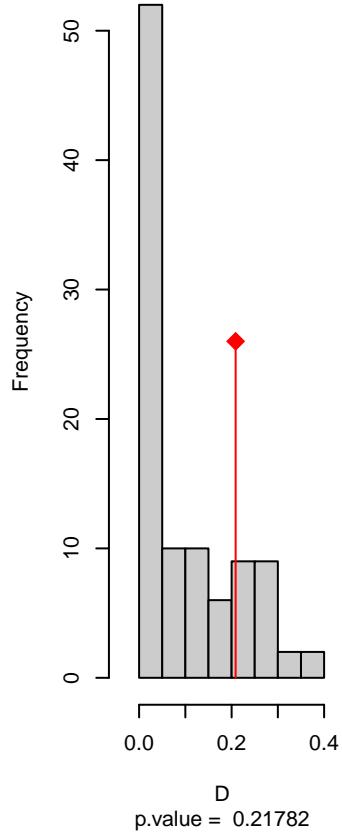
Equivalency



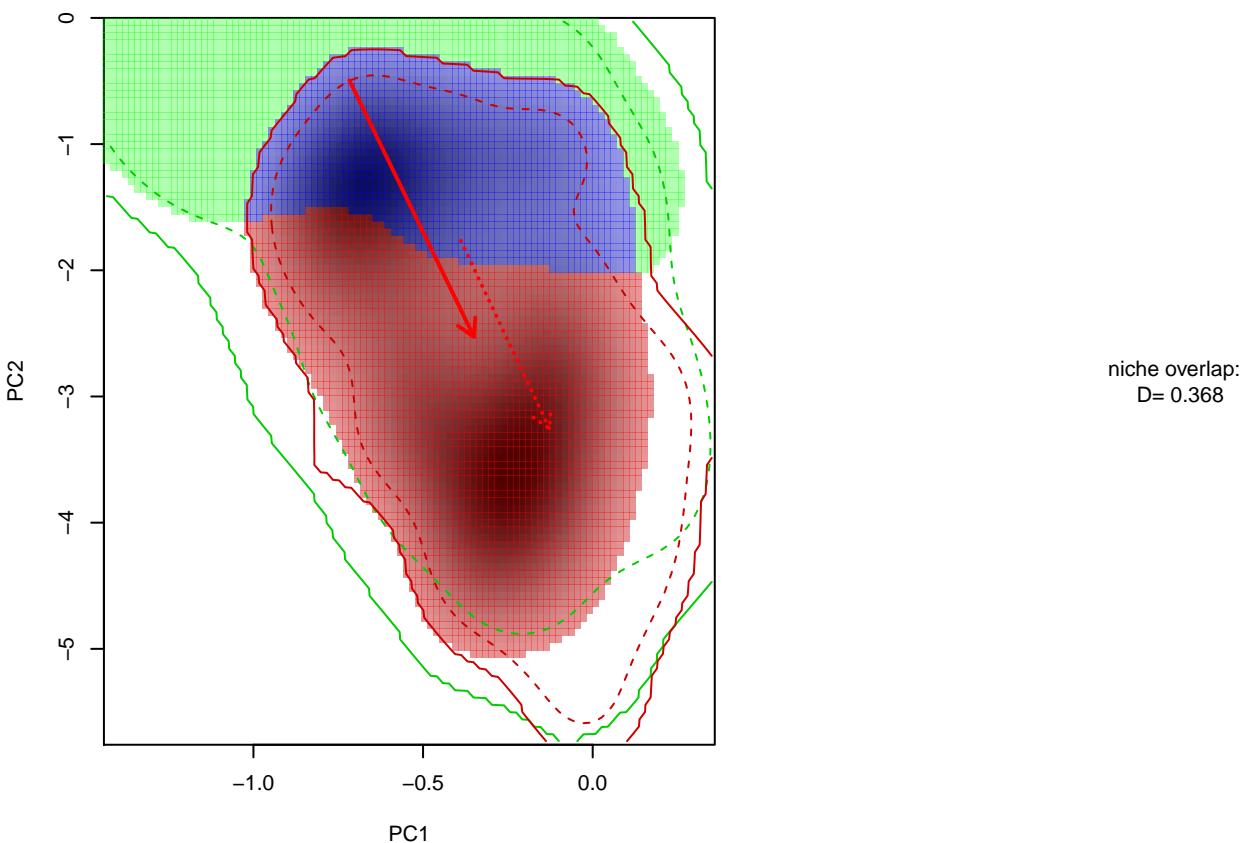
Similarity 2→1



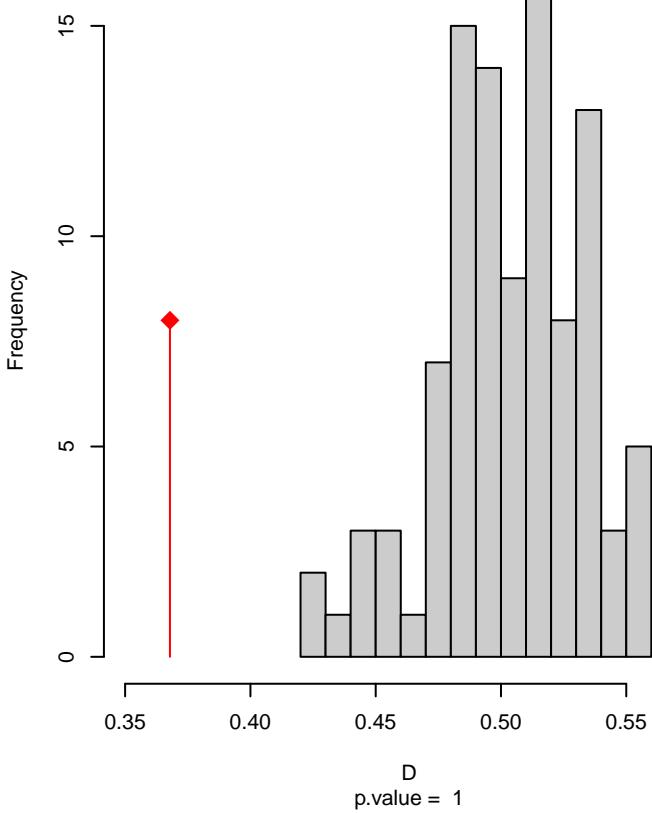
Similarity 1→2



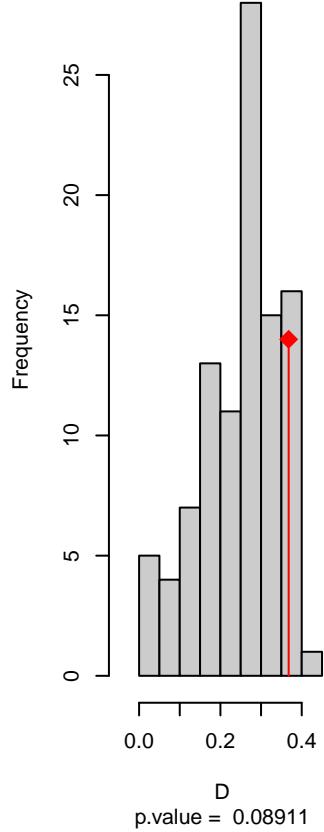
Phedina_borbonica seasonal overlap-hypo wi



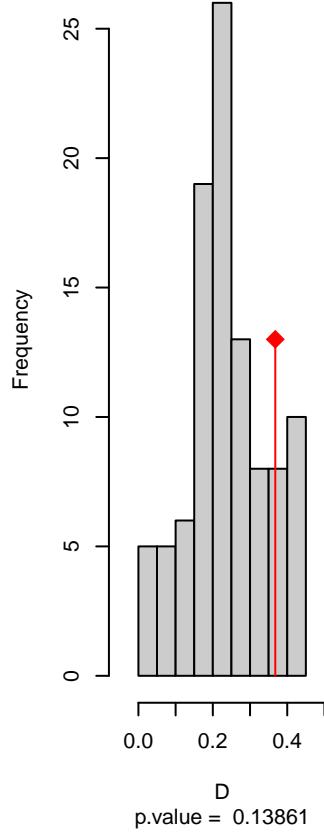
Equivalency



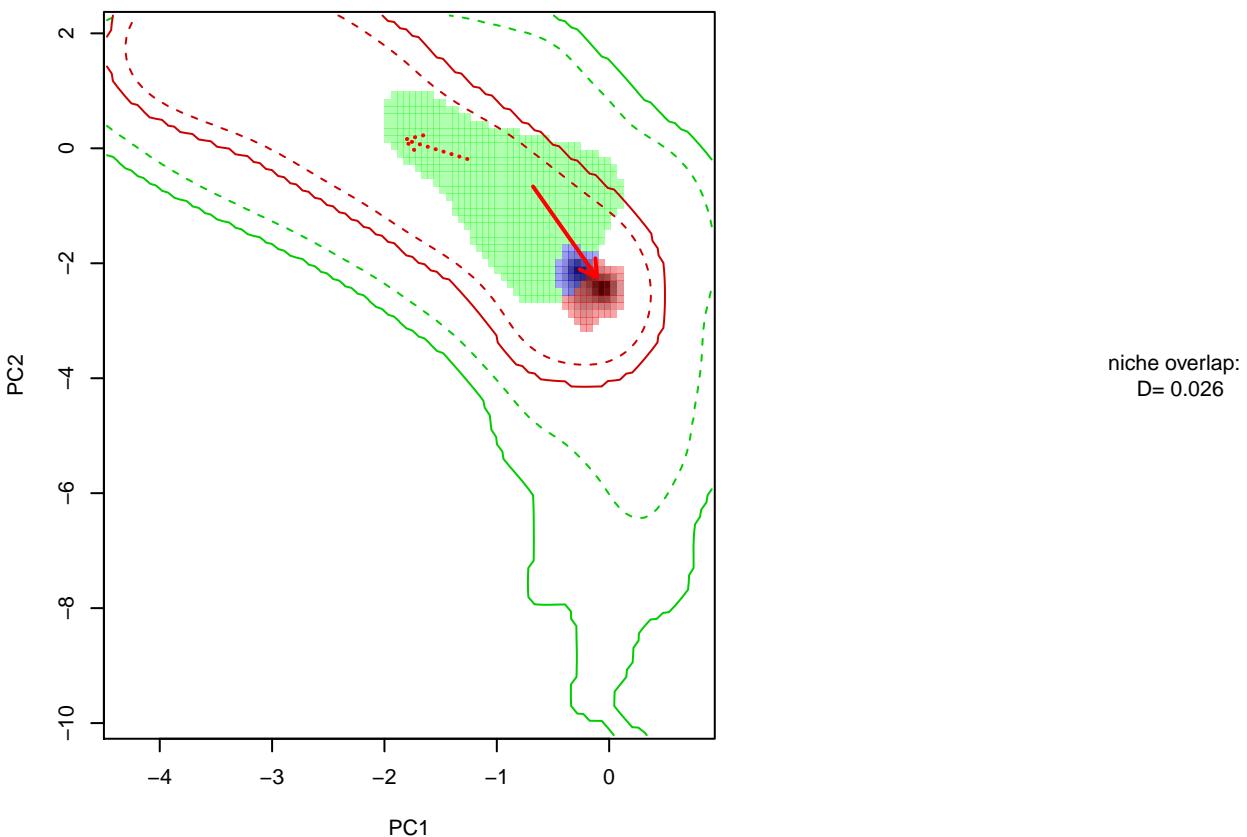
Similarity 2→1



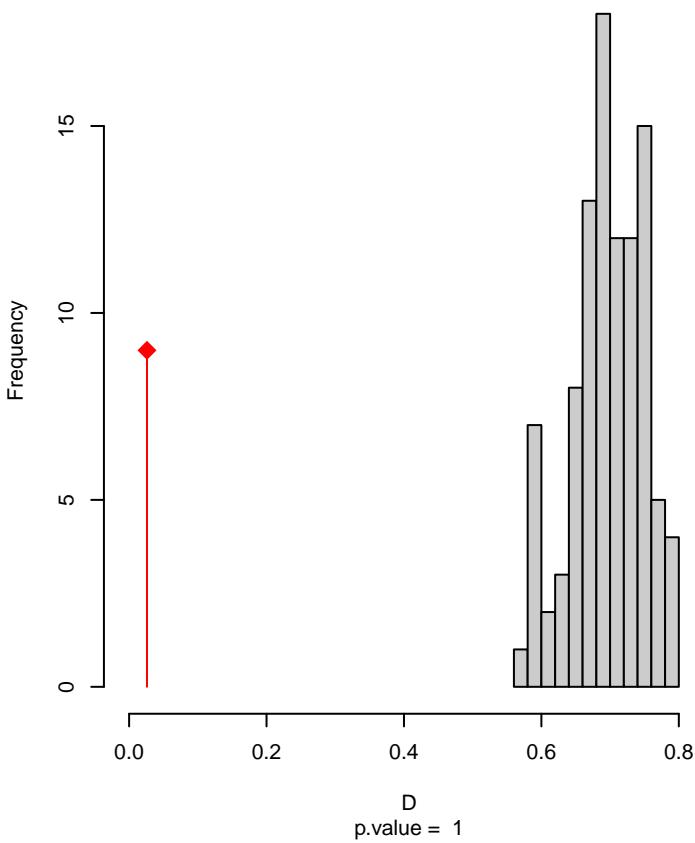
Similarity 1→2



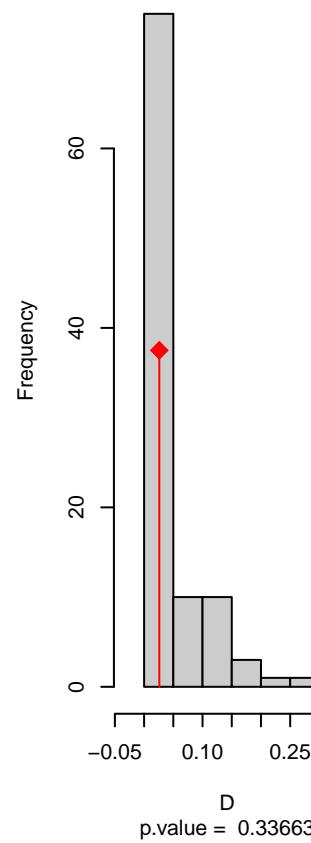
Phedina_brazzae seasonal overlap



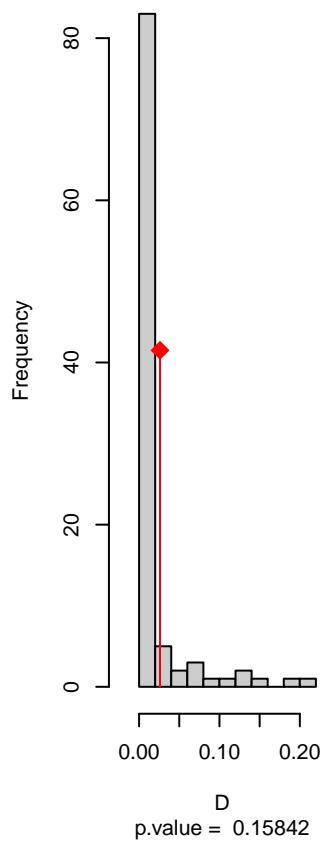
Equivalency



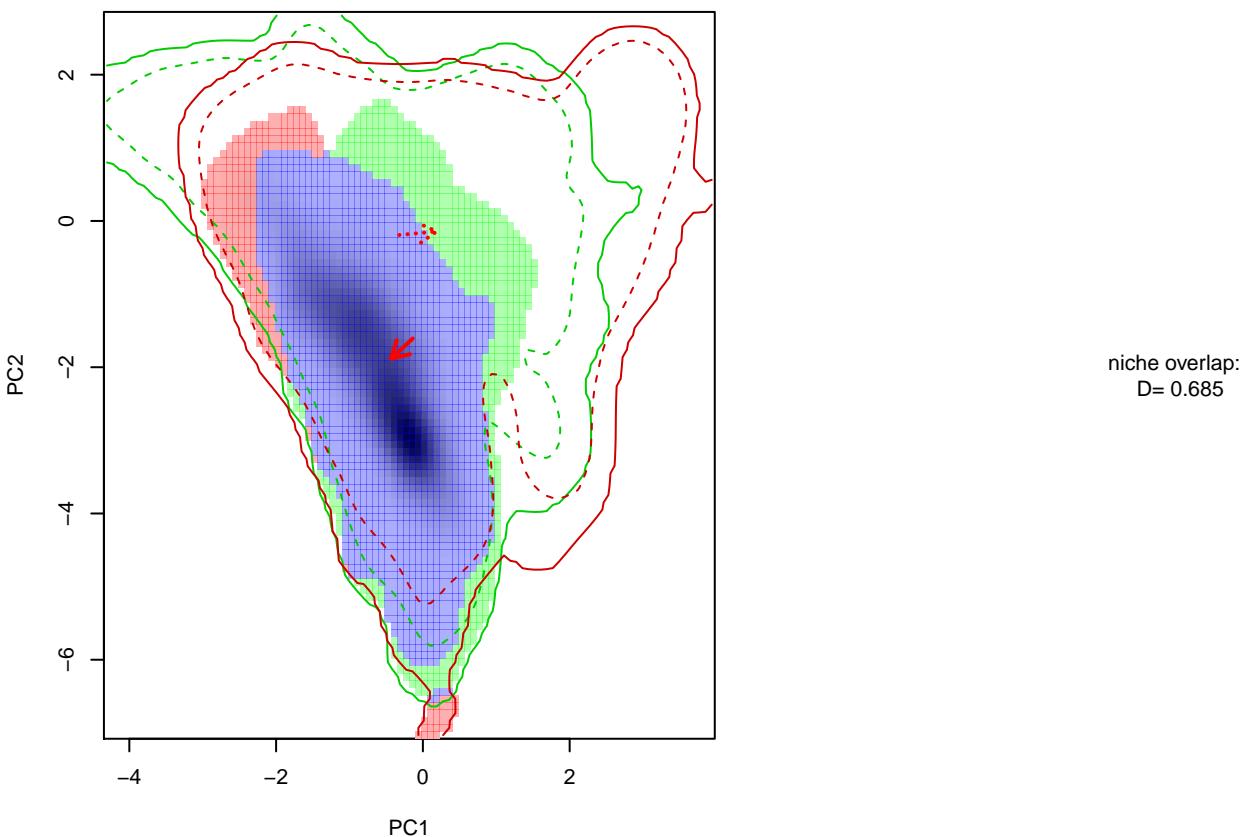
Similarity 2→1



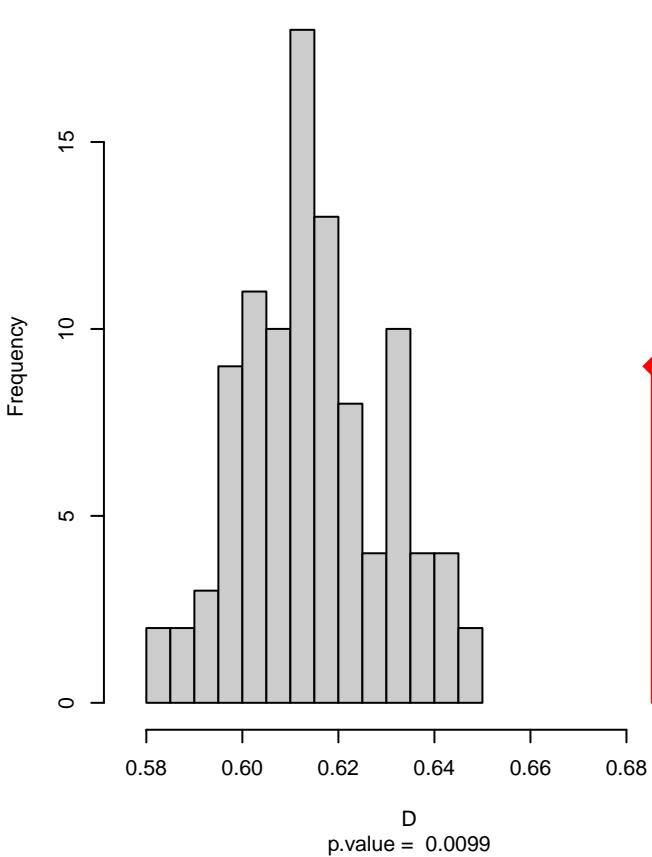
Similarity 1→2



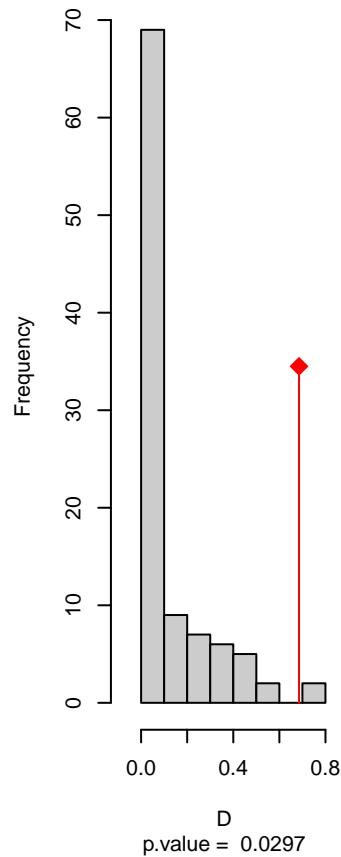
Progne_chalybea seasonal overlap



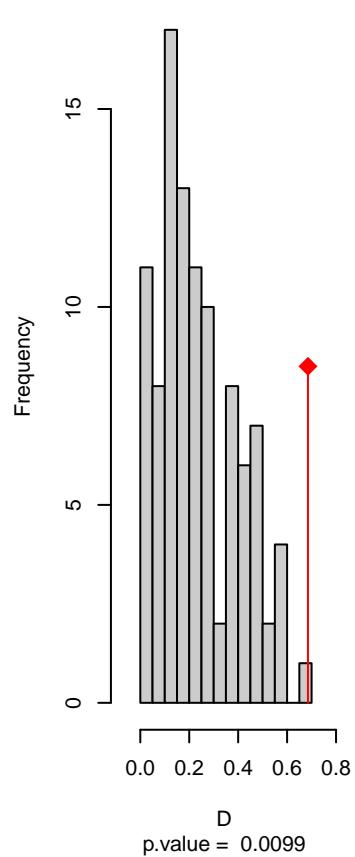
Equivalency



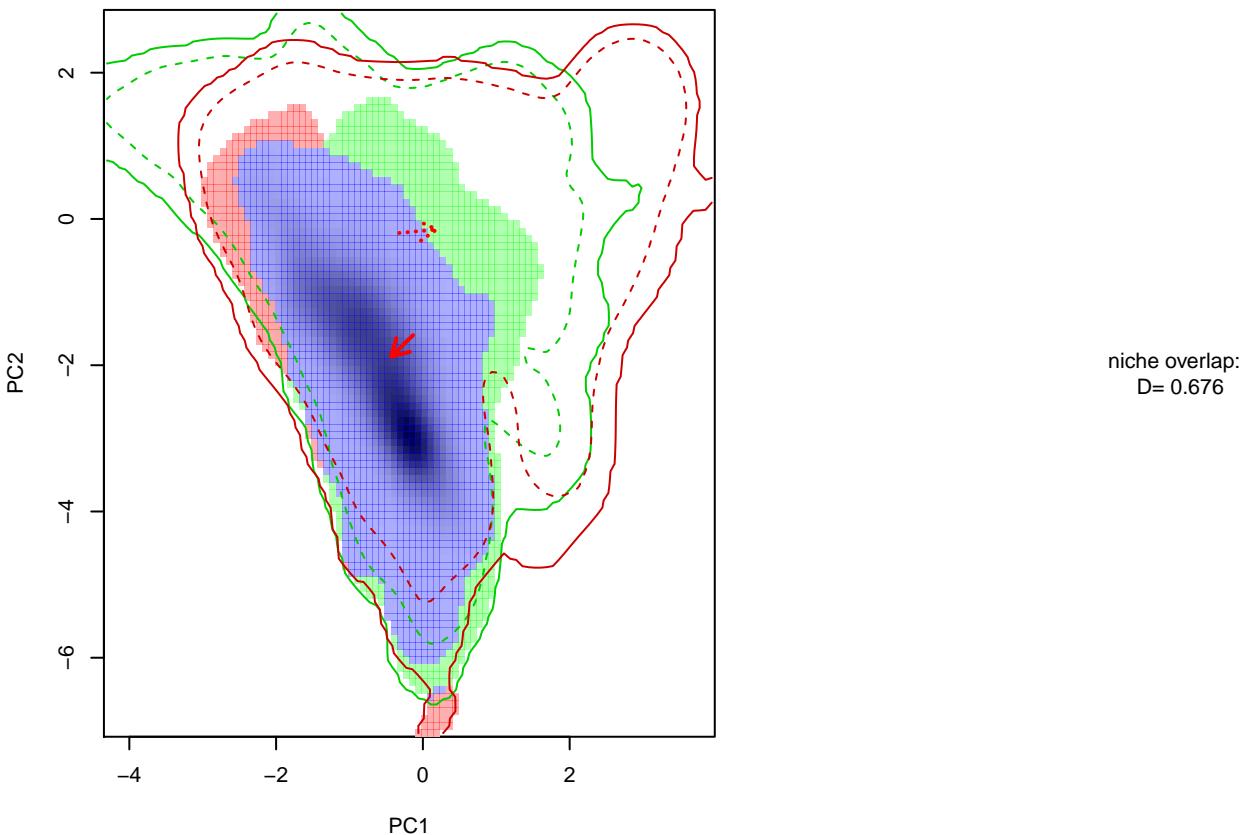
Similarity 2->1



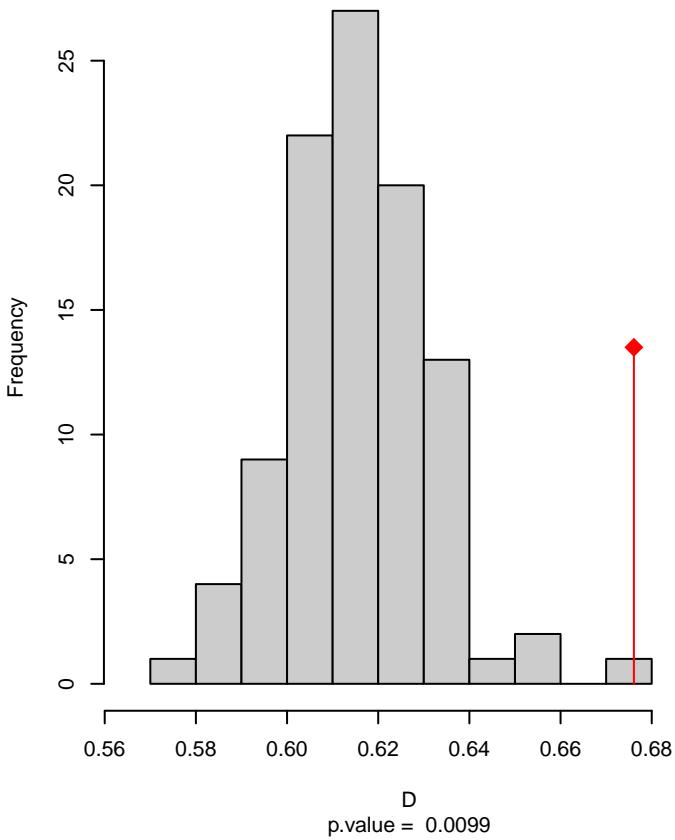
Similarity 1->2



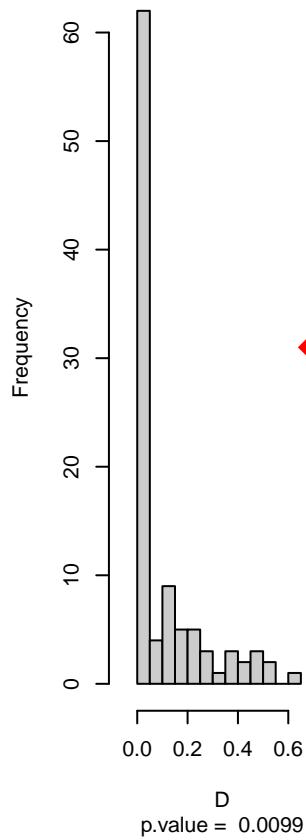
Progne_chalybea seasonal overlap-hypo.br



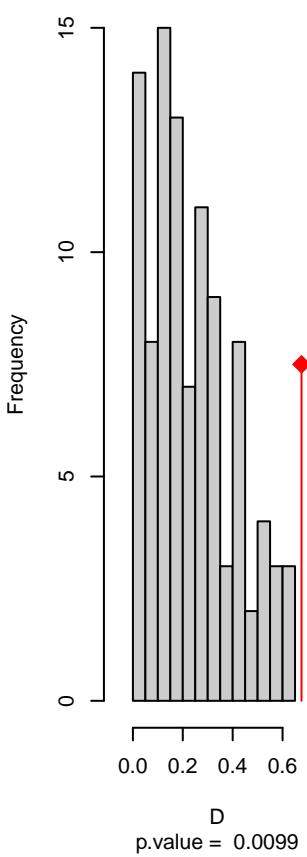
Equivalency



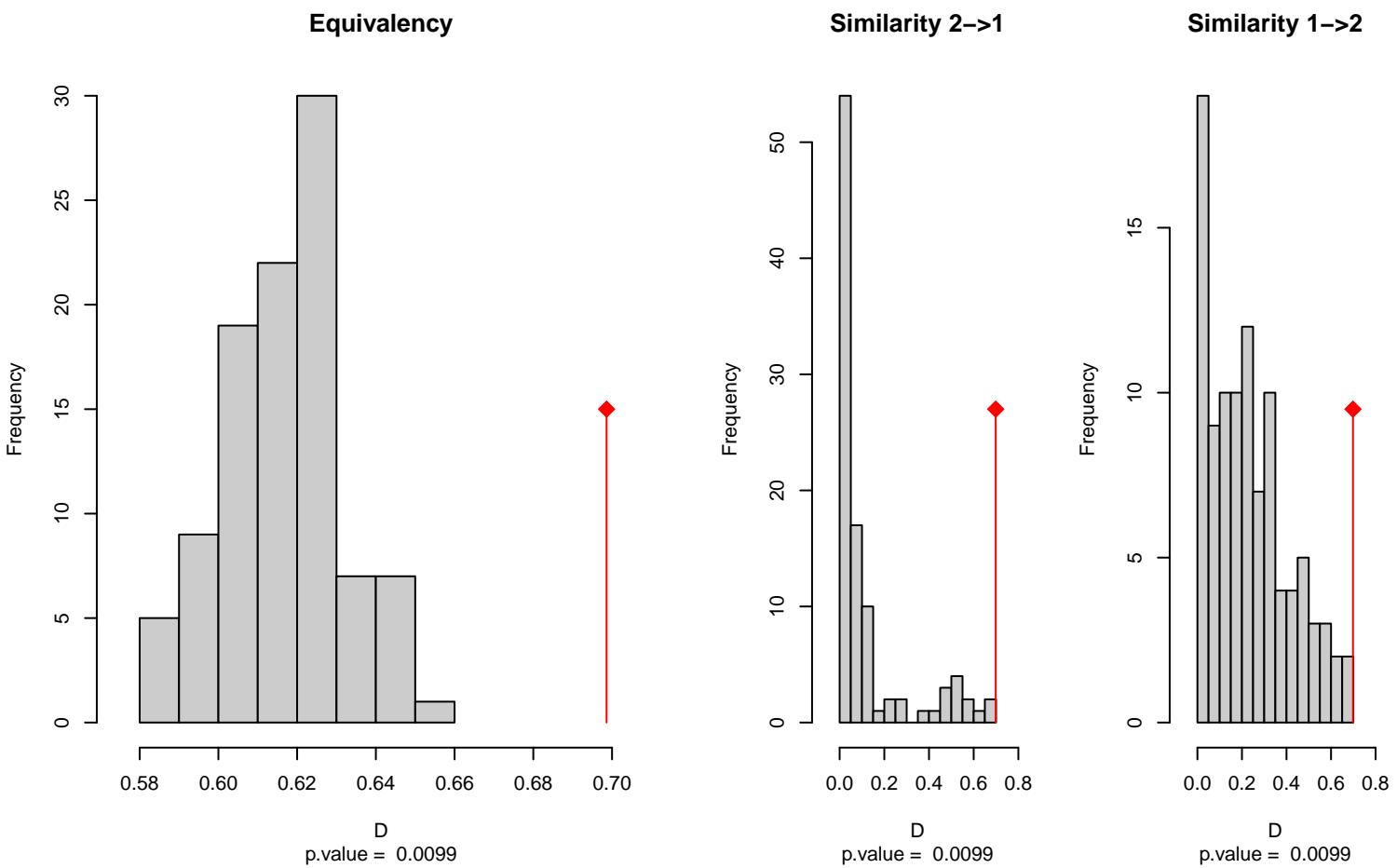
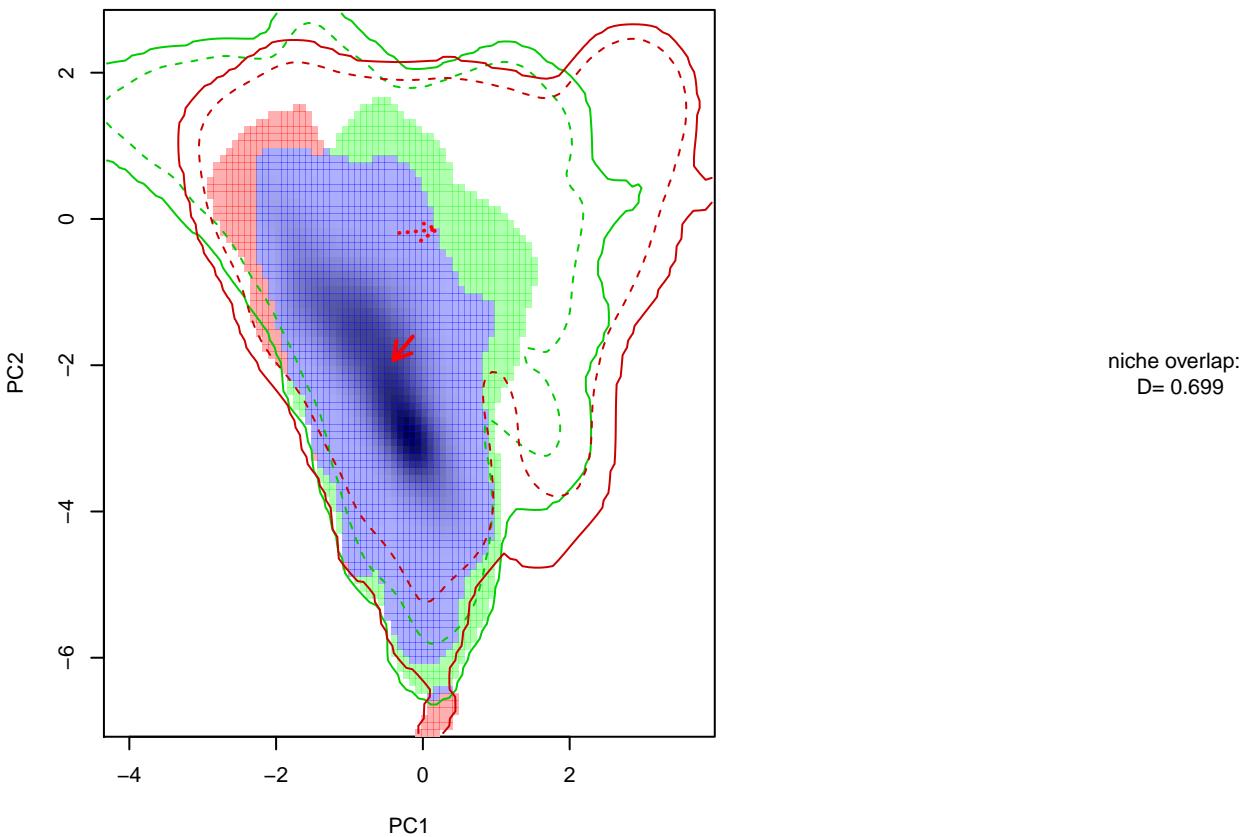
Similarity 2→1



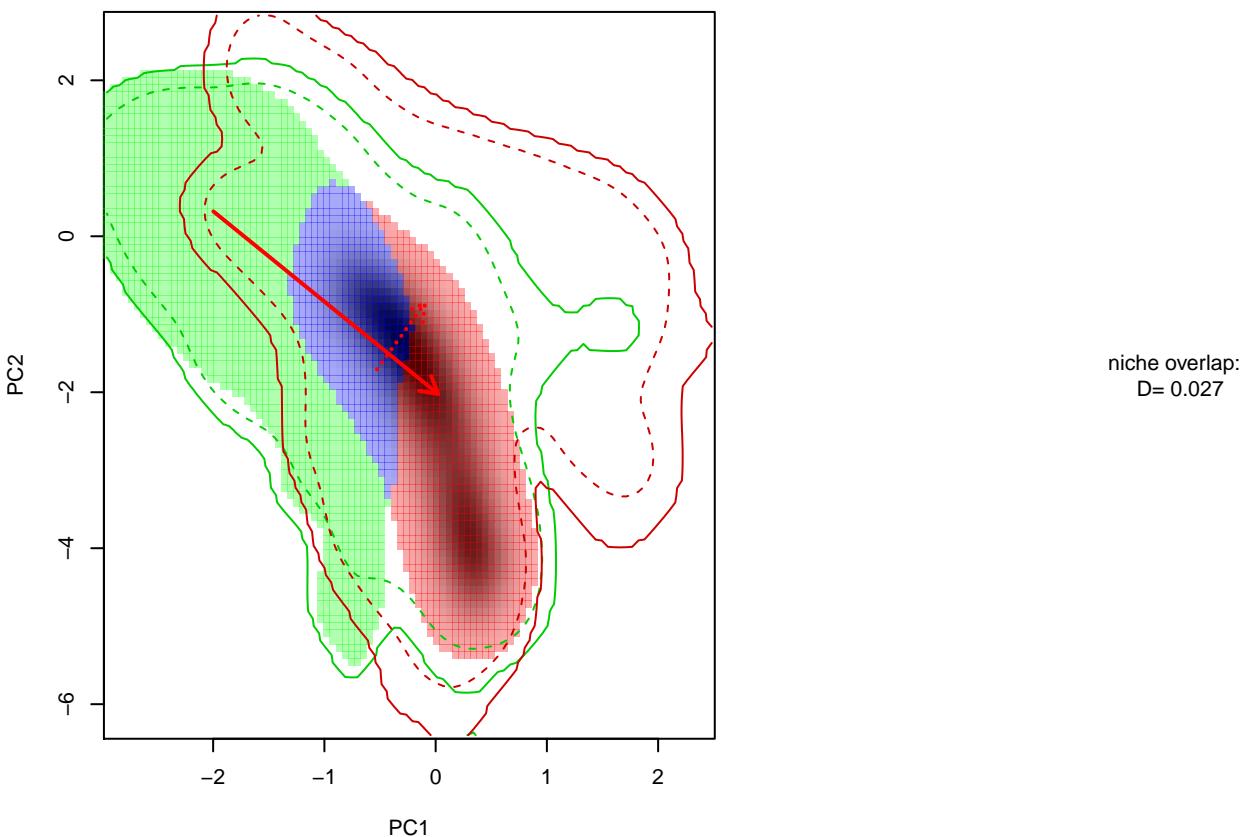
Similarity 1→2



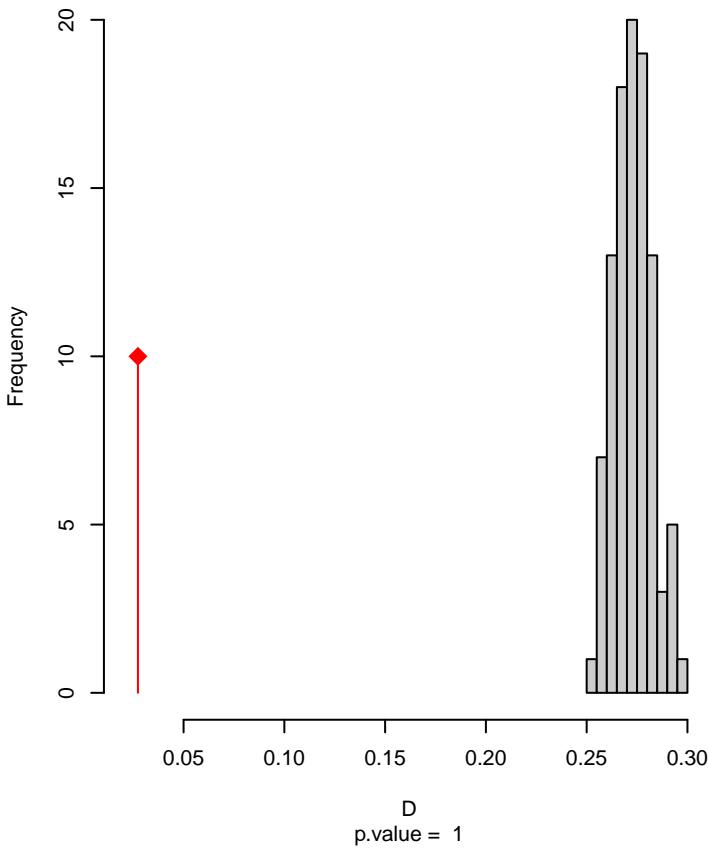
Progne_chalybea seasonal overlap-hypo wi



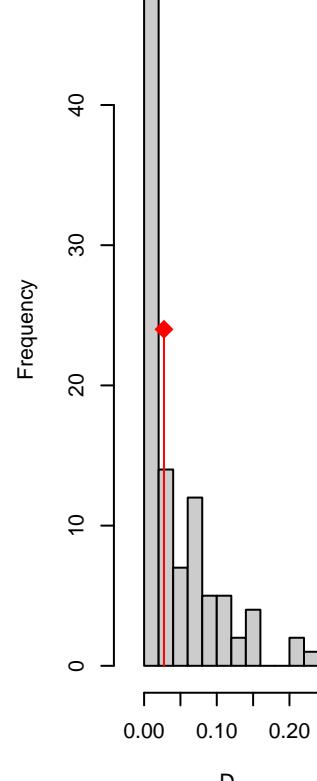
Progne_elegans seasonal overlap



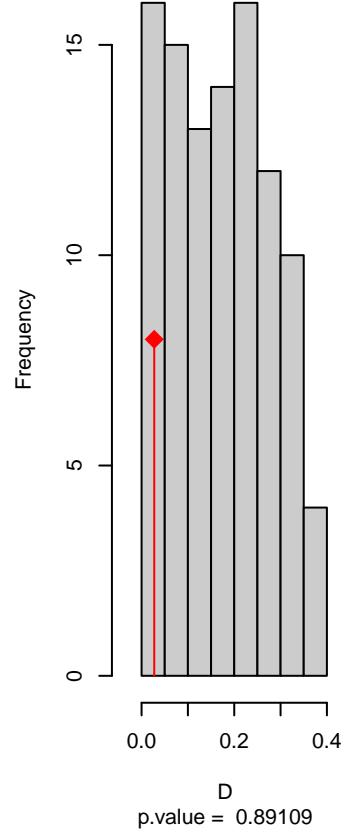
Equivalency



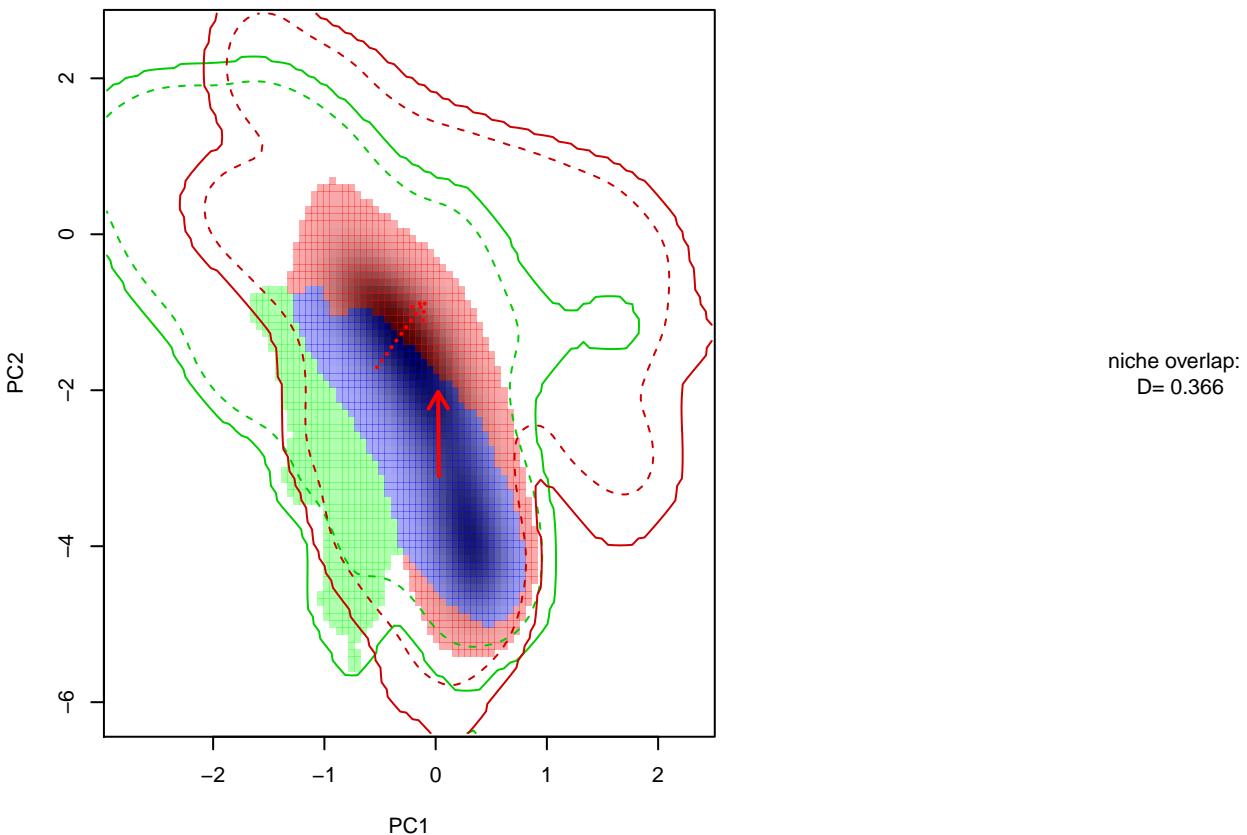
Similarity 2→1



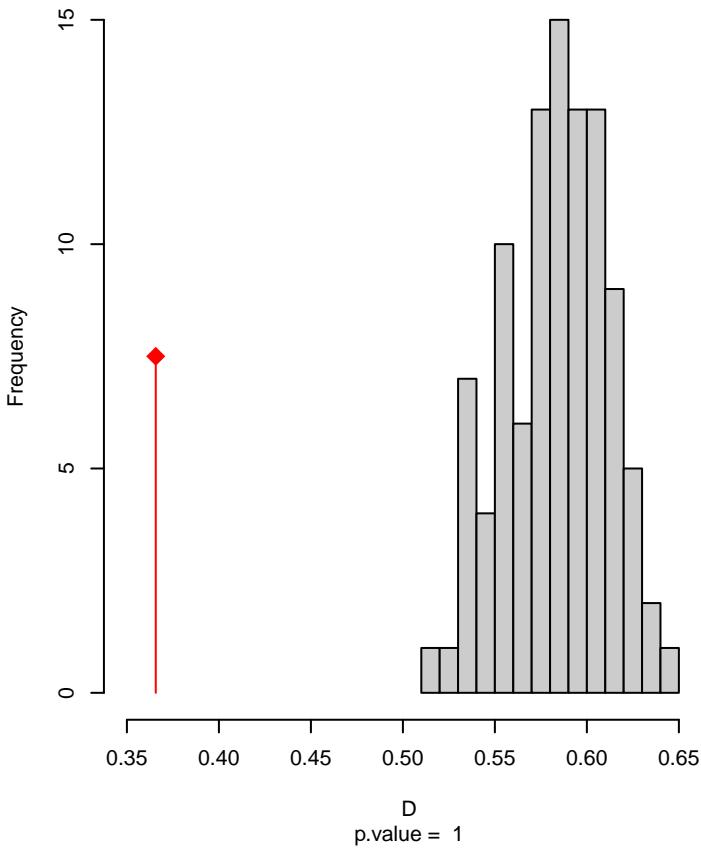
Similarity 1→2



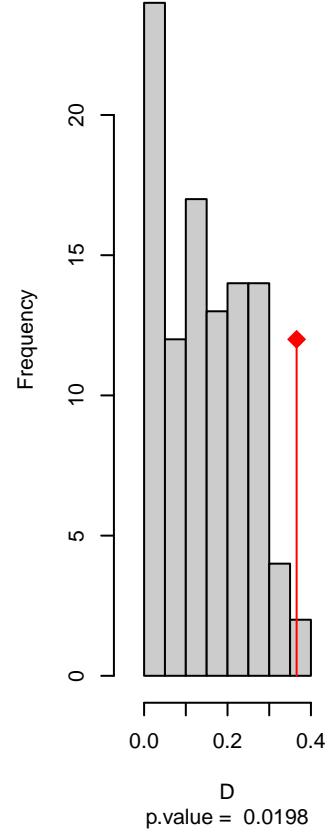
Progne_elegans seasonal overlap-hypo.br



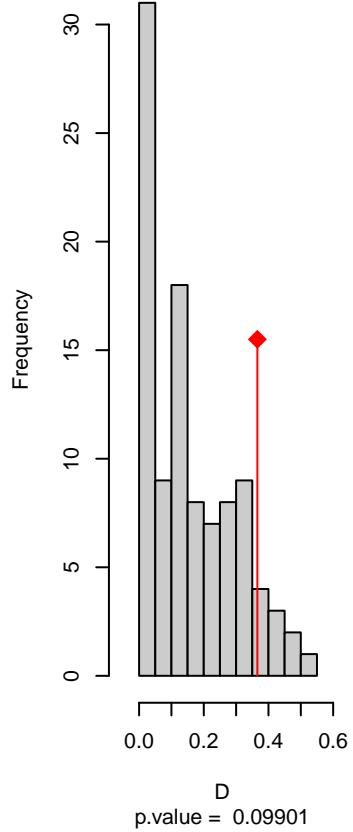
Equivalency



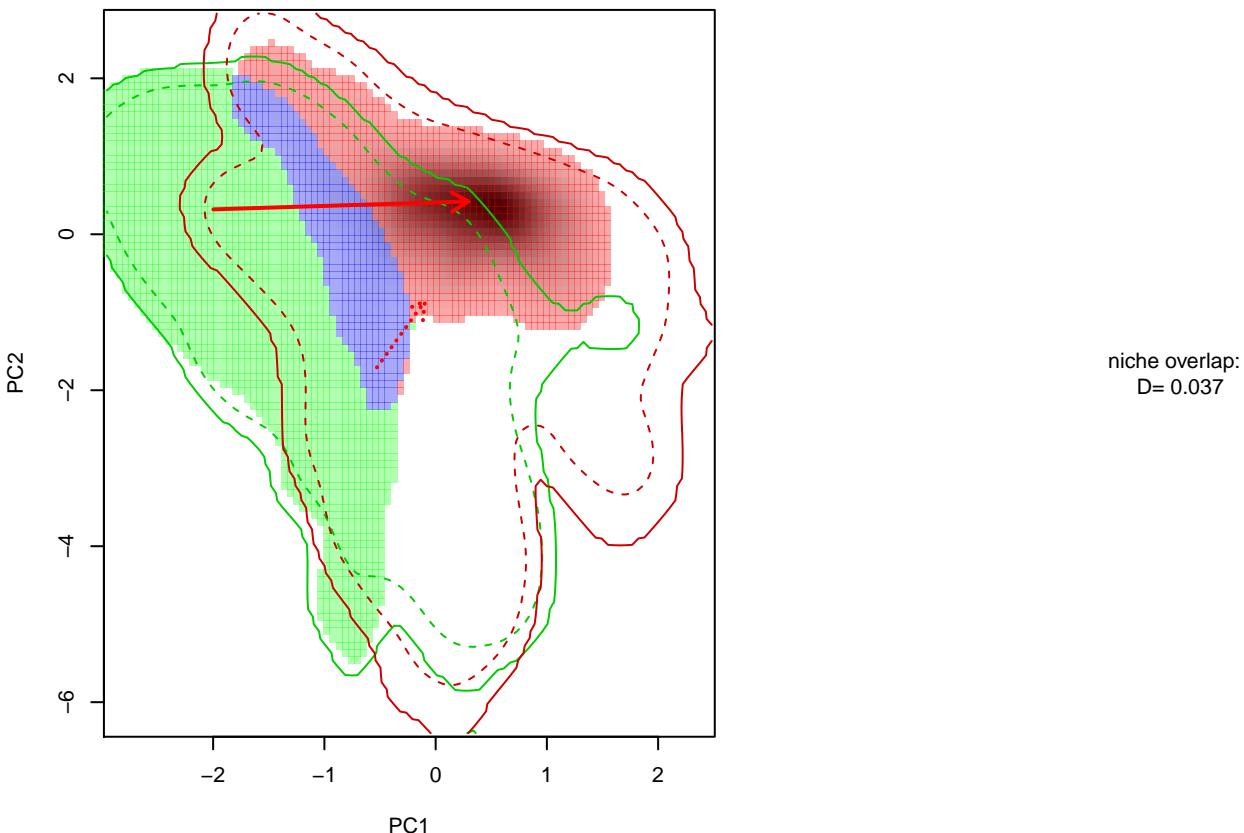
Similarity 2→1



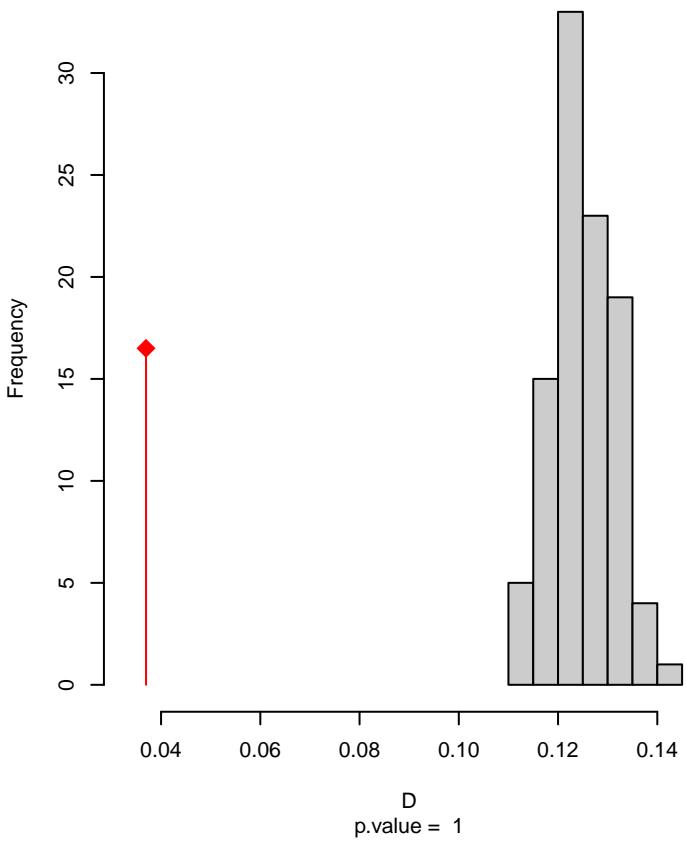
Similarity 1→2



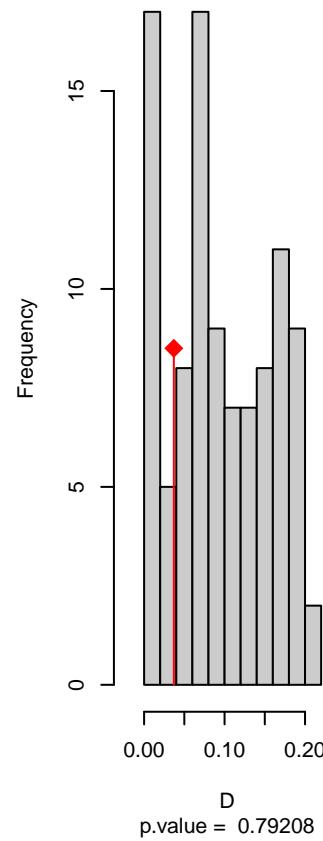
Progne_elegans seasonal overlap-hypo wi



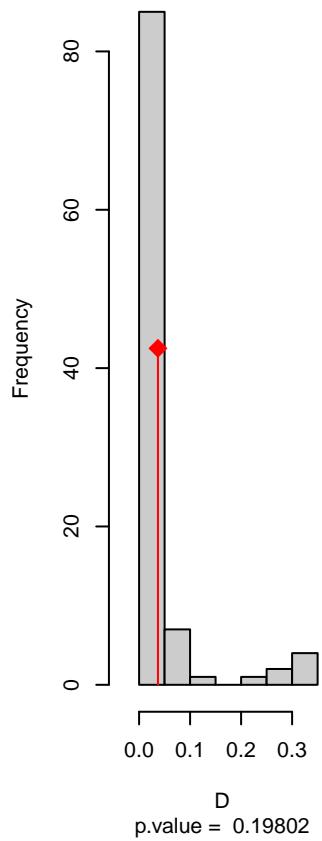
Equivalency



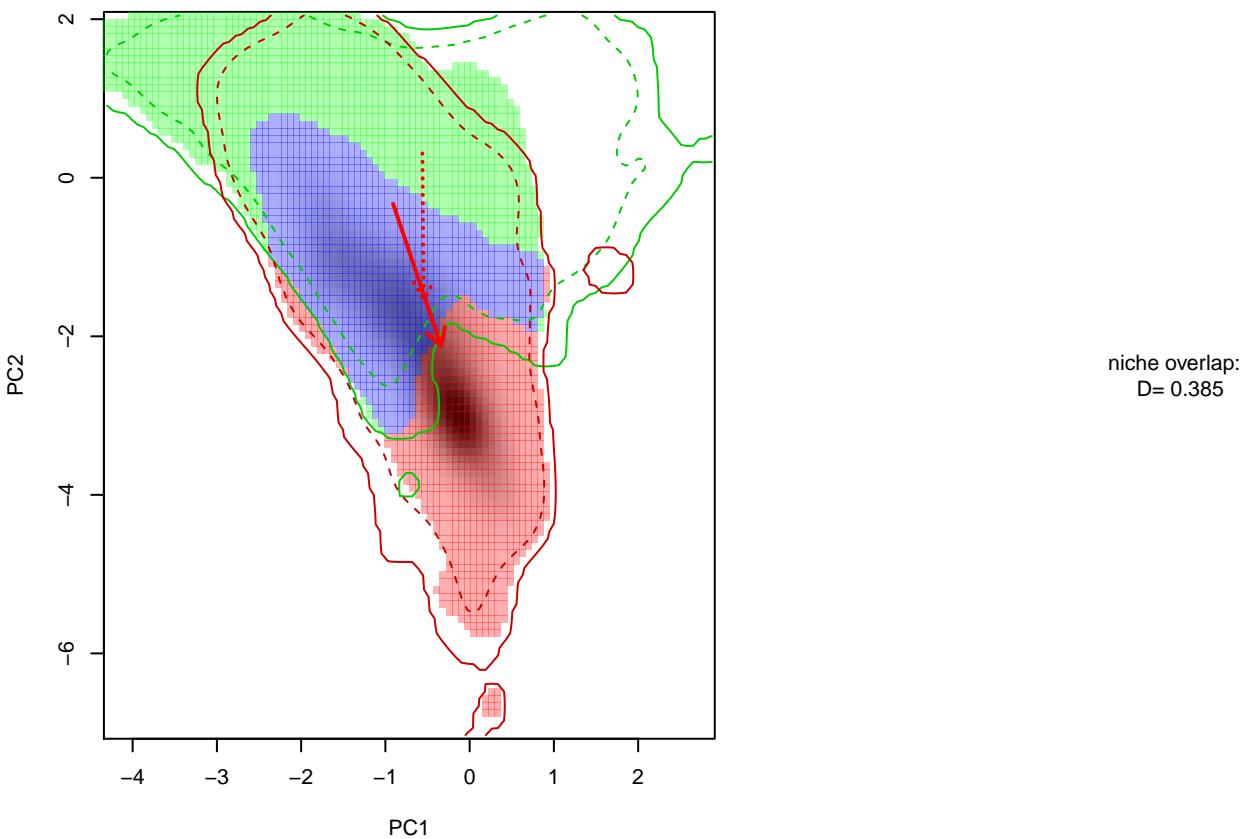
Similarity 2→1



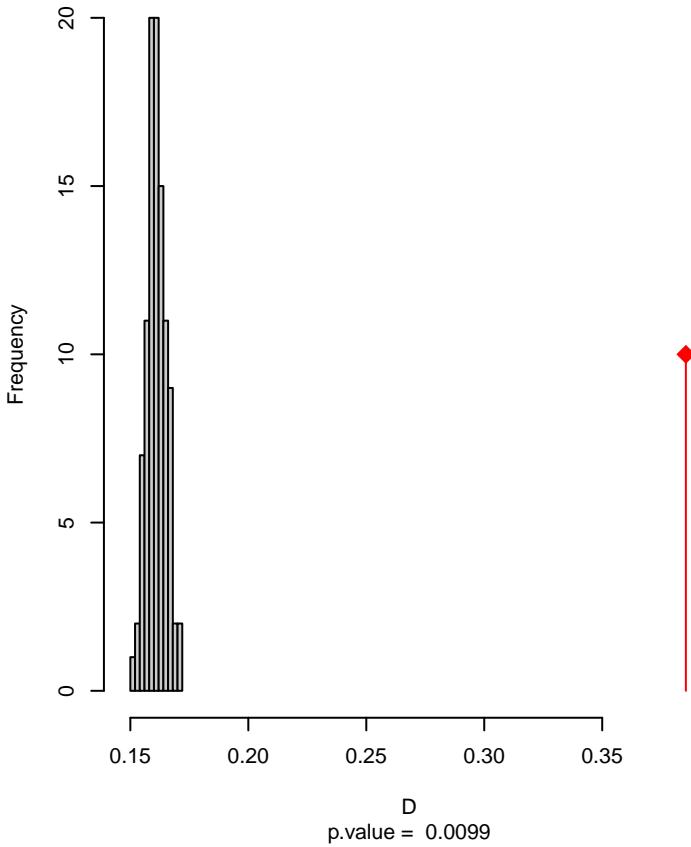
Similarity 1→2



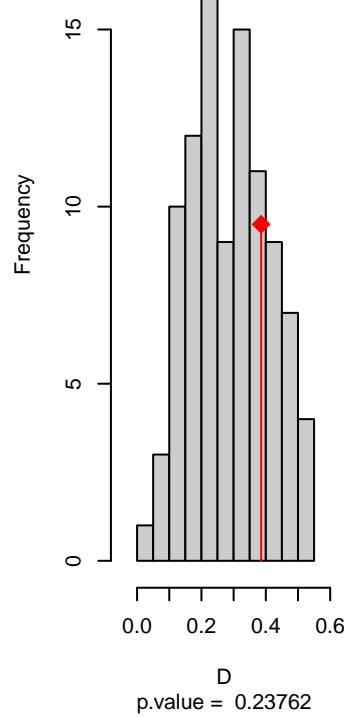
Progne_subis seasonal overlap



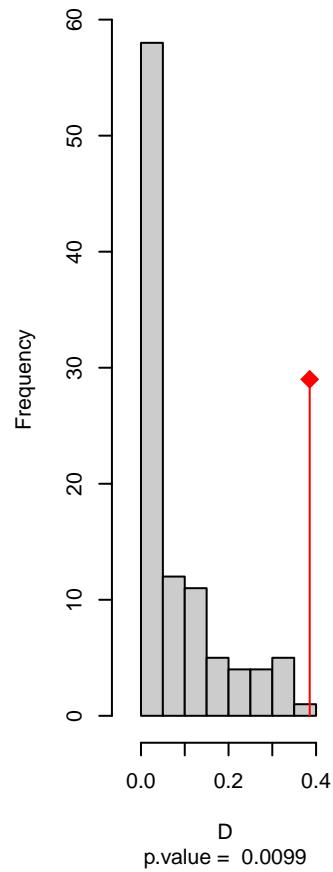
Equivalency



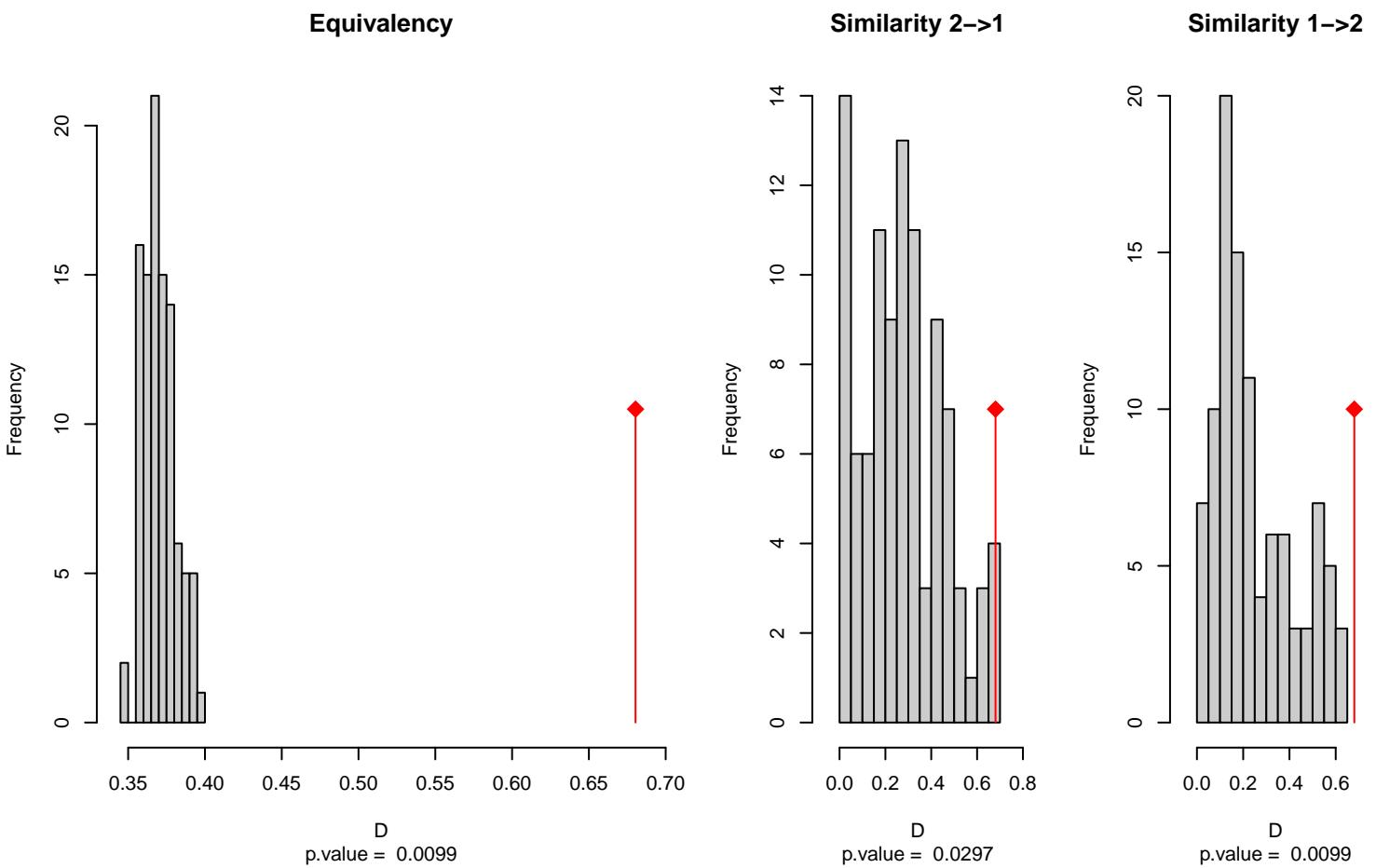
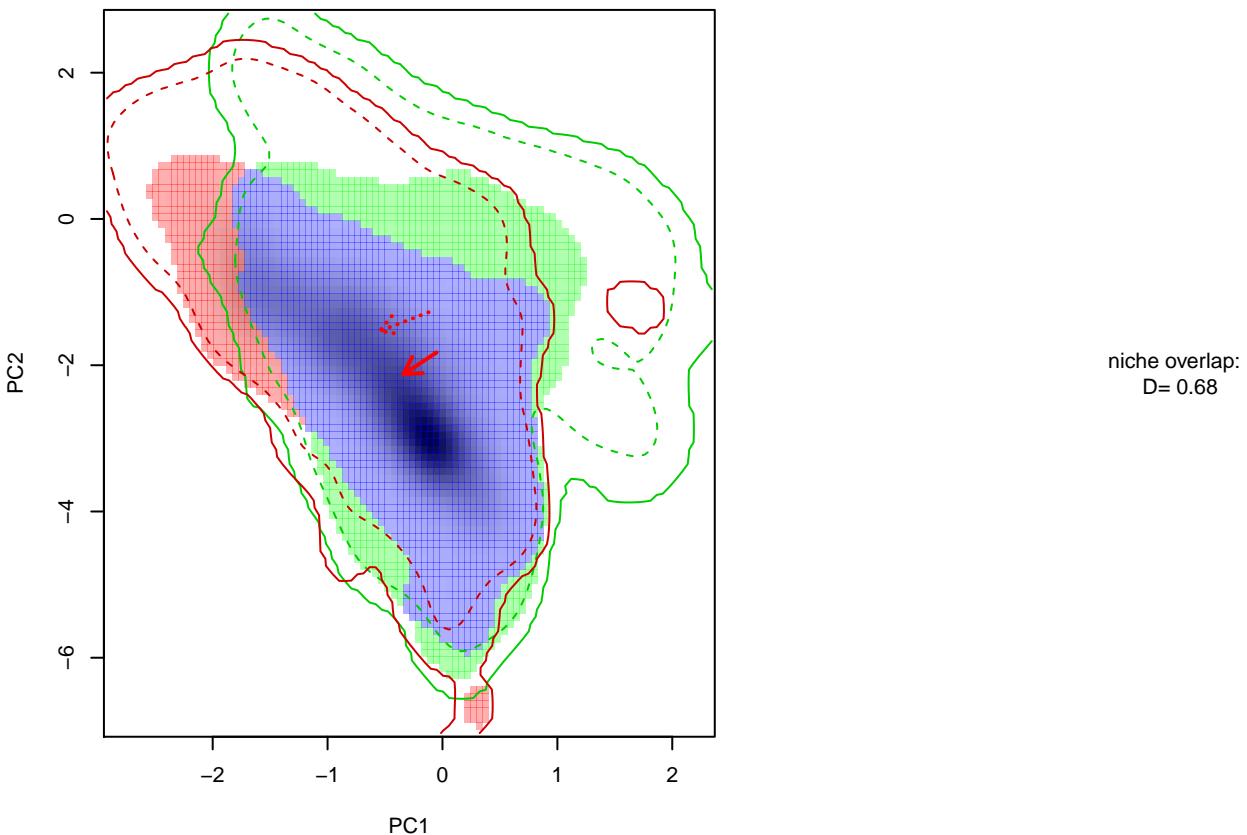
Similarity 2->1



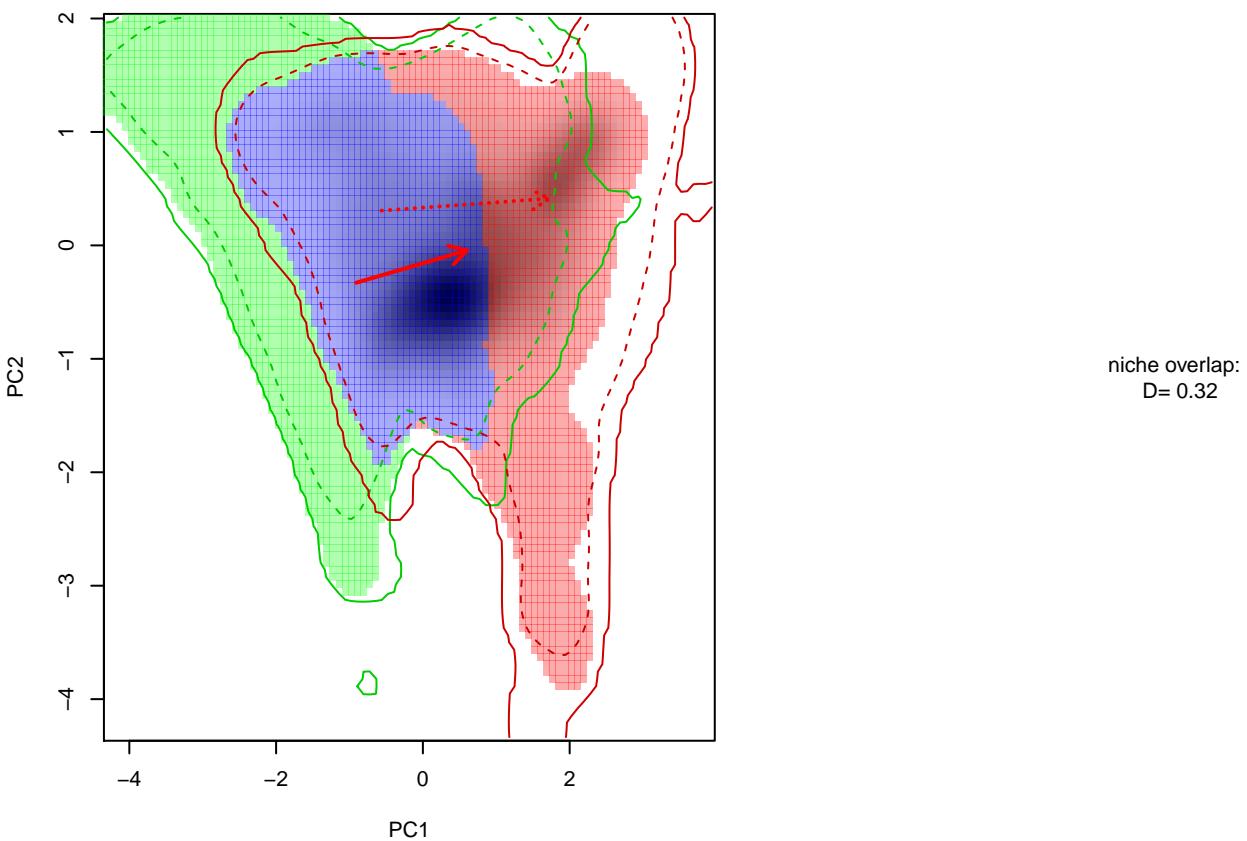
Similarity 1->2



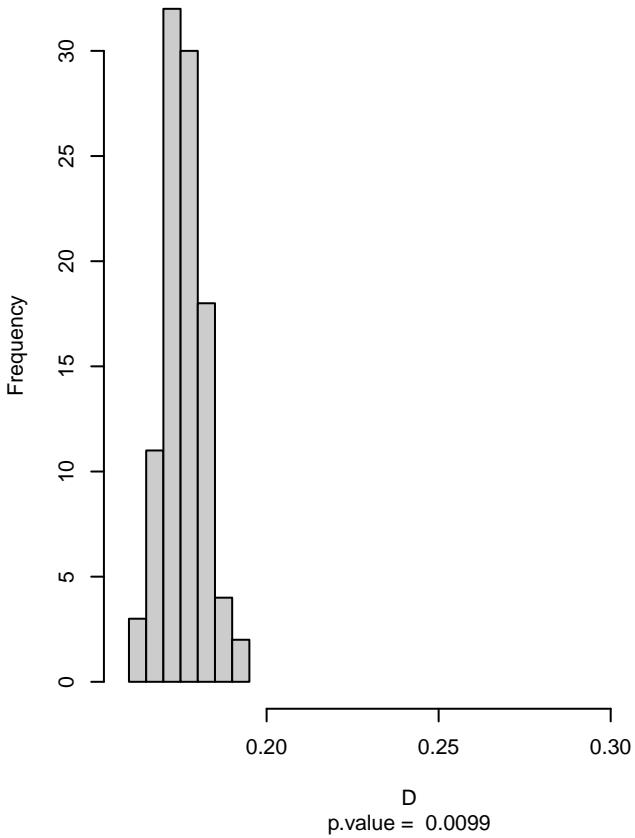
Progne_subis seasonal overlap-hypo.br



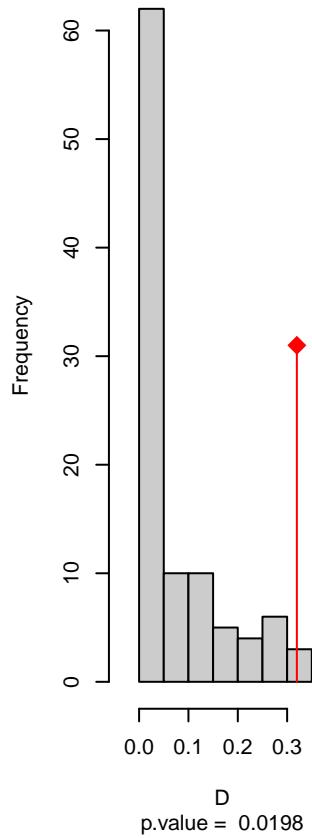
Progne_subis seasonal overlap-hypo wi



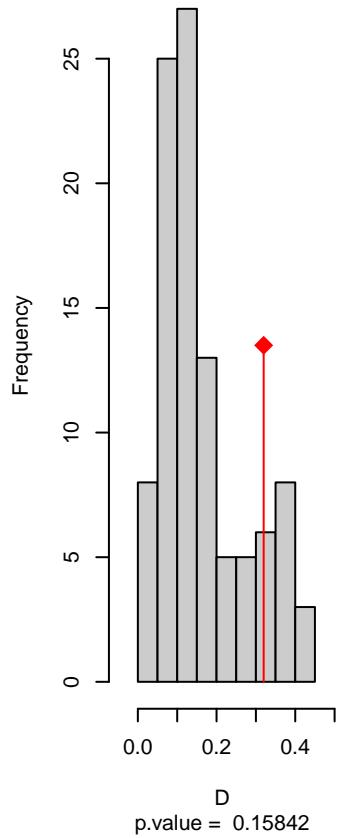
Equivalency



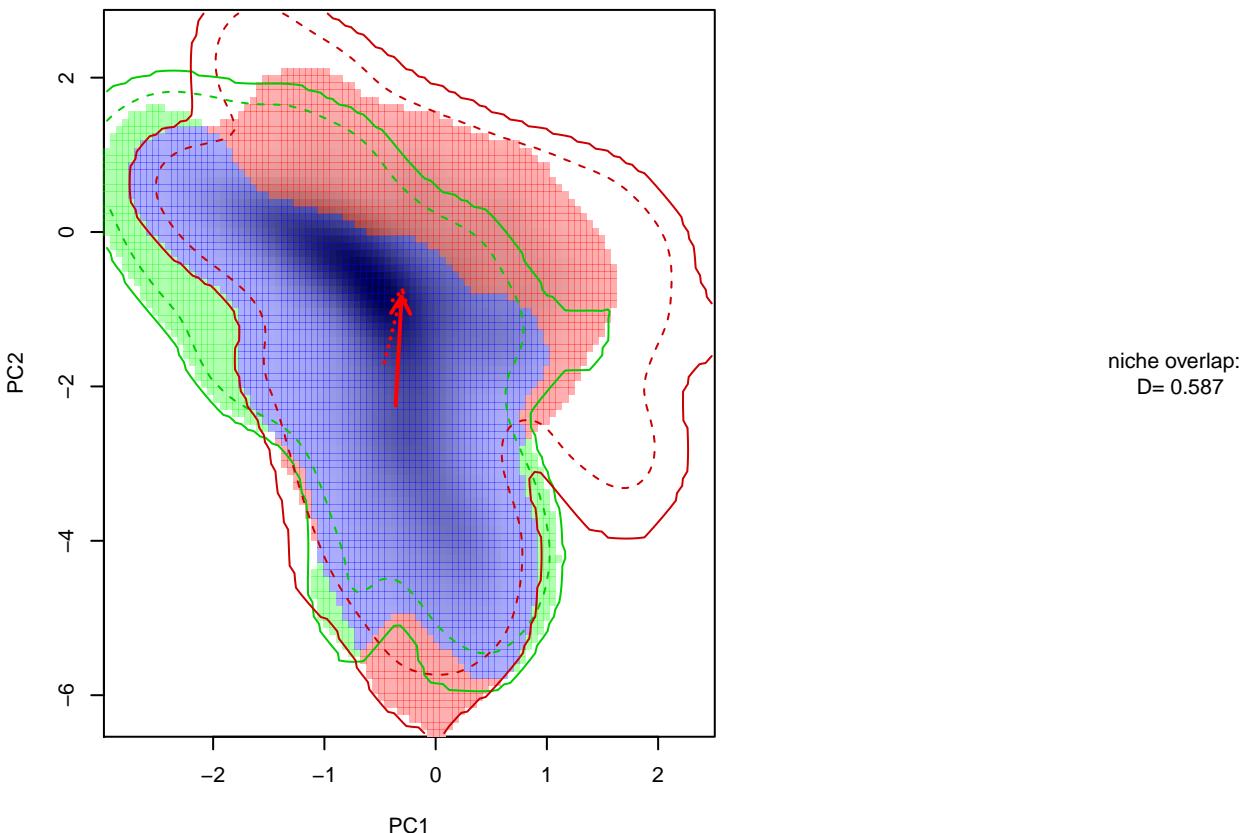
Similarity 2→1



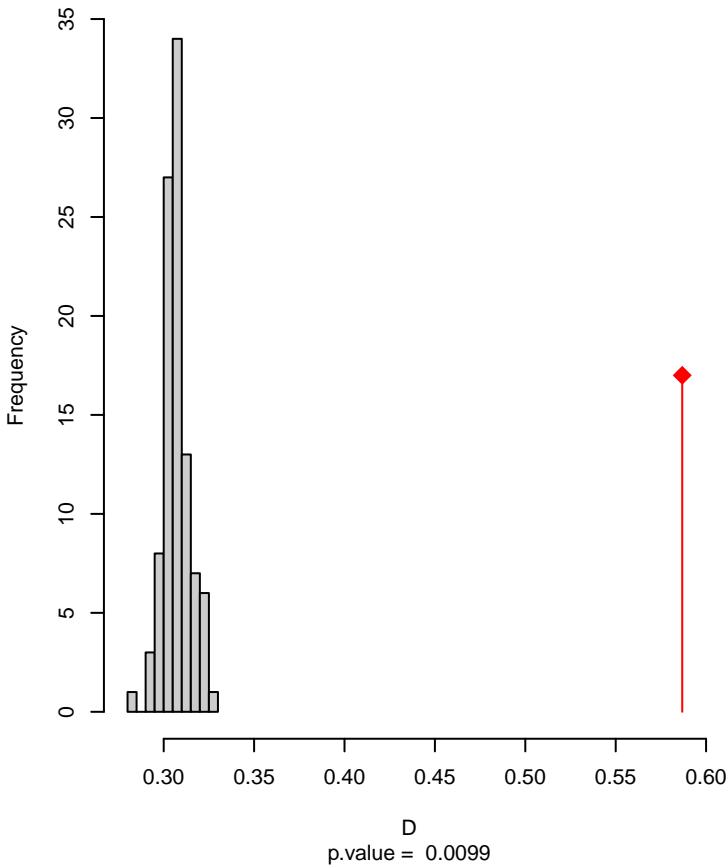
Similarity 1→2



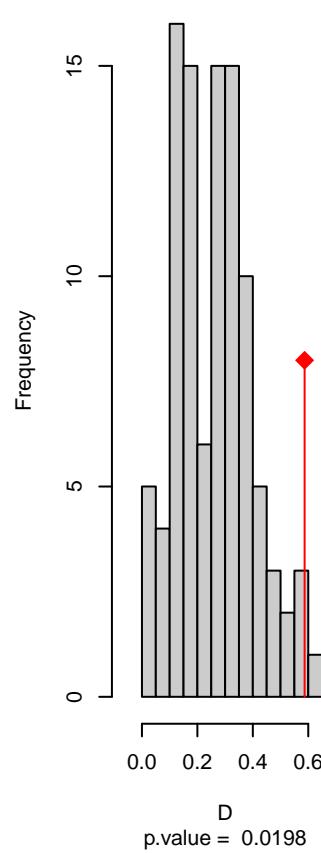
Progne_tapera seasonal overlap



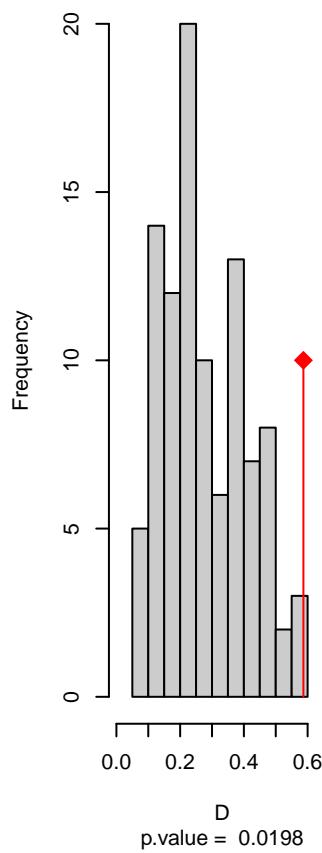
Equivalency



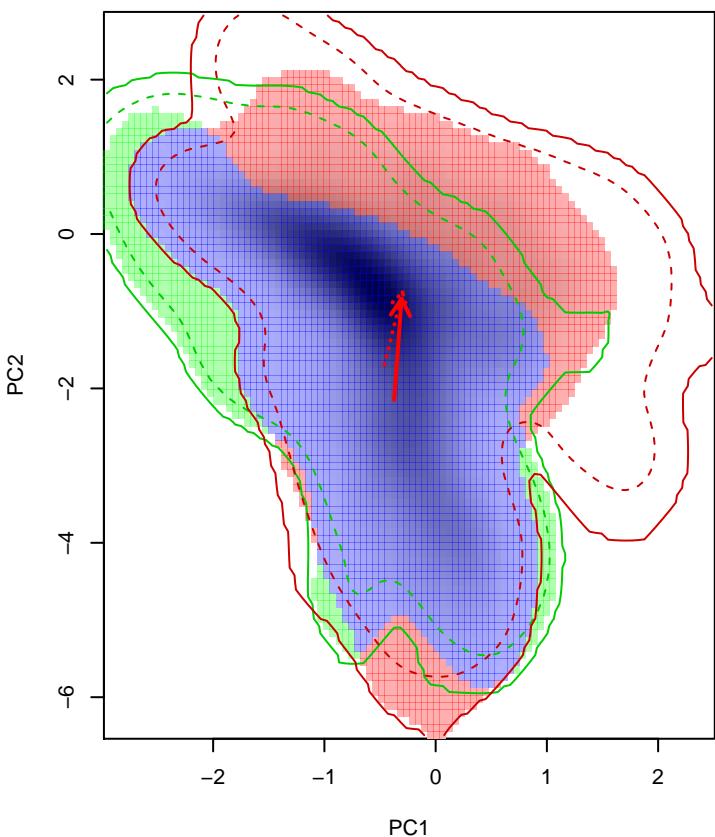
Similarity 2→1



Similarity 1→2

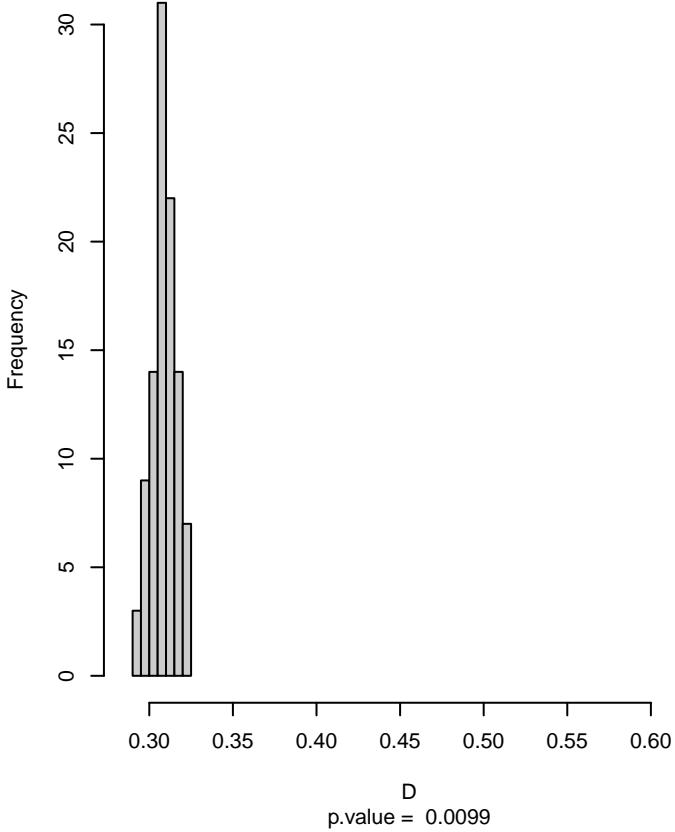


Progne_tapera seasonal overlap-hypo.br

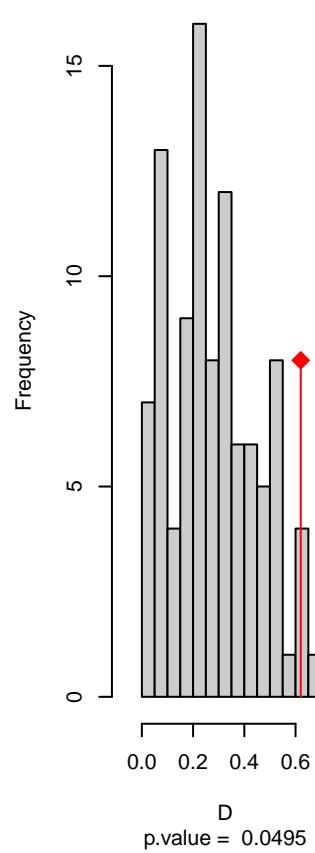


niche overlap:
 $D = 0.62$

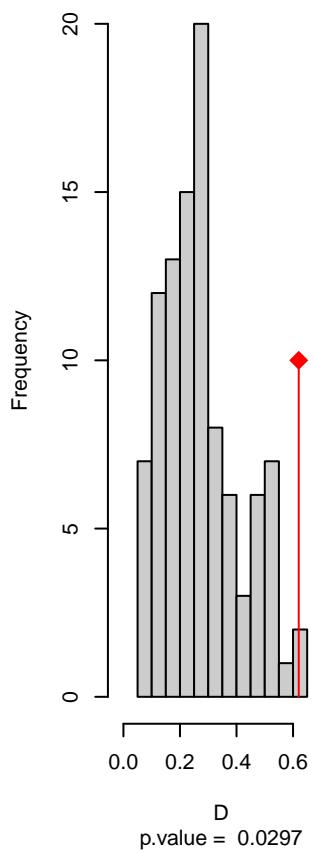
Equivalency



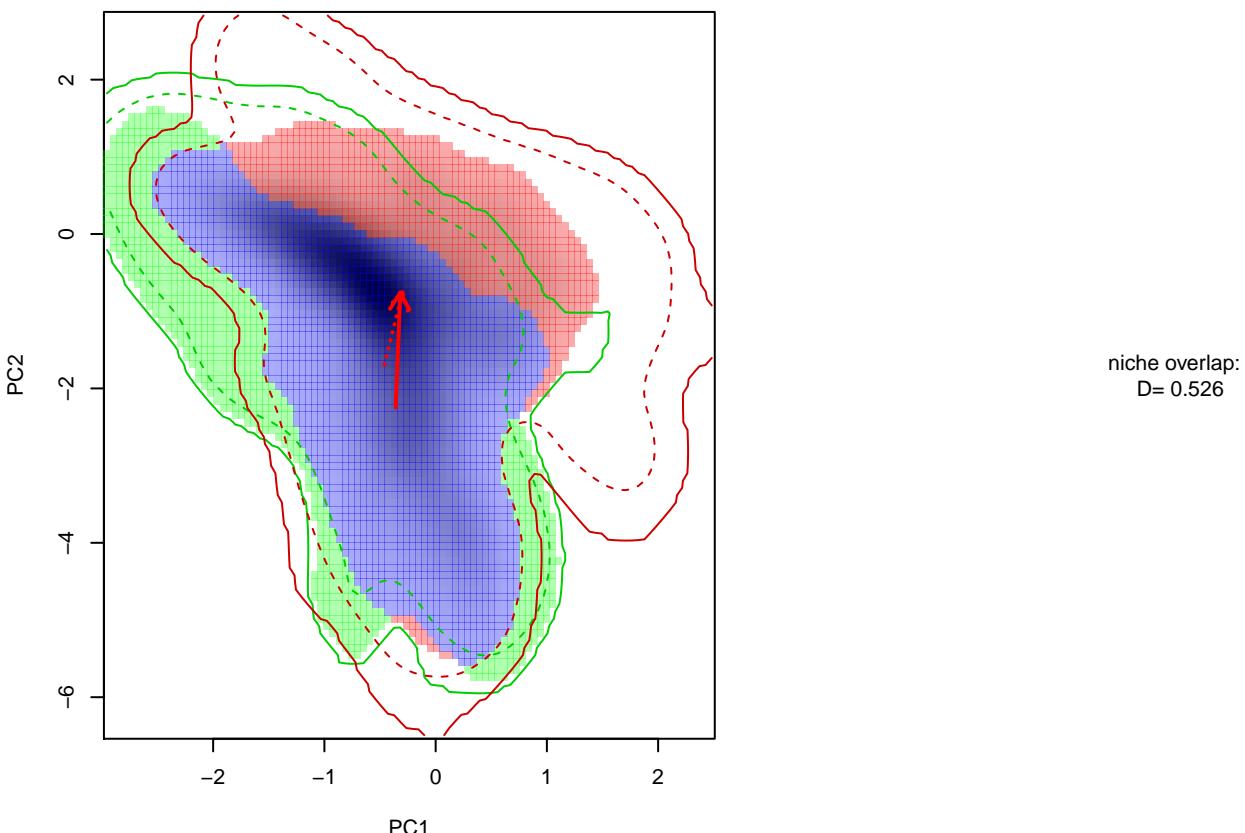
Similarity 2→1



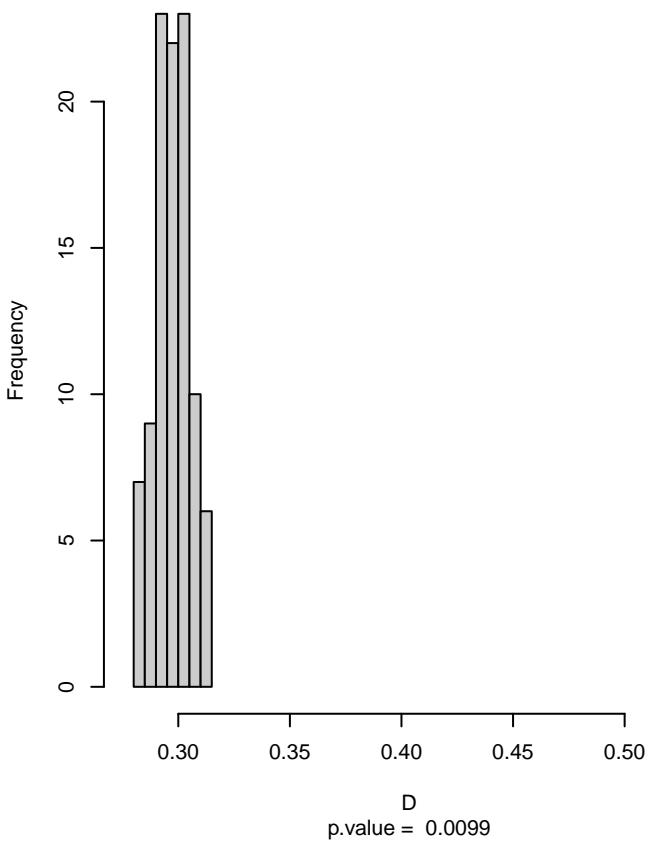
Similarity 1→2



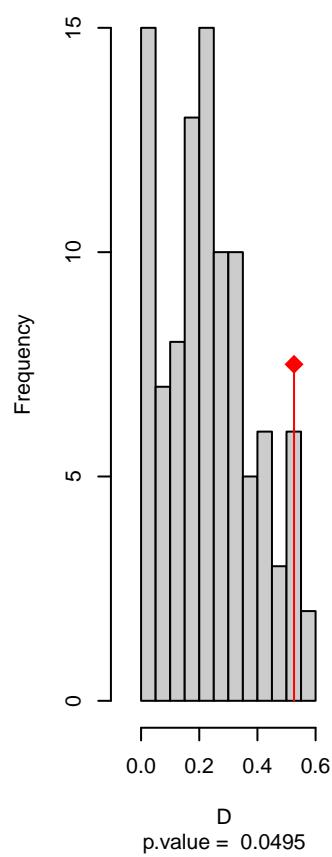
Progne_tapera seasonal overlap-hypo wi



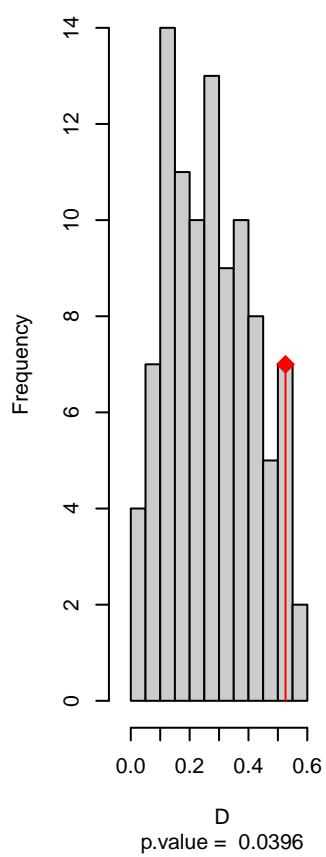
Equivalency



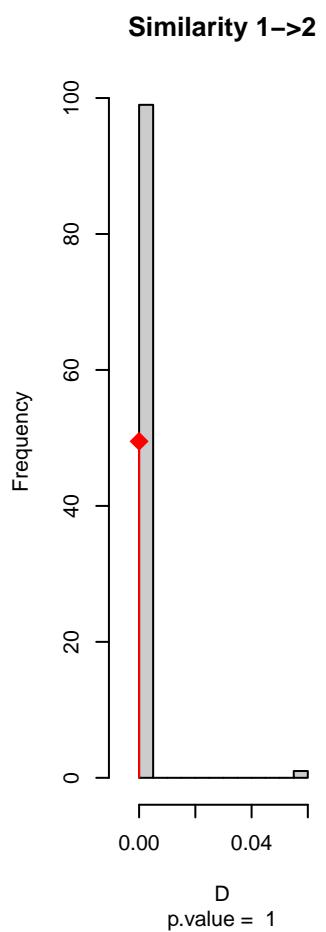
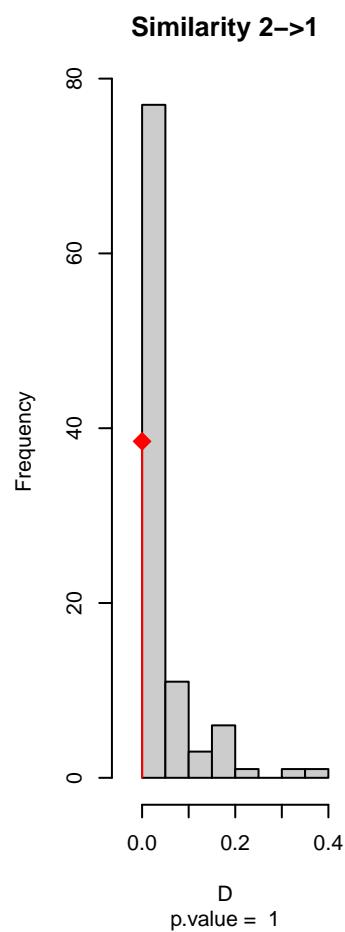
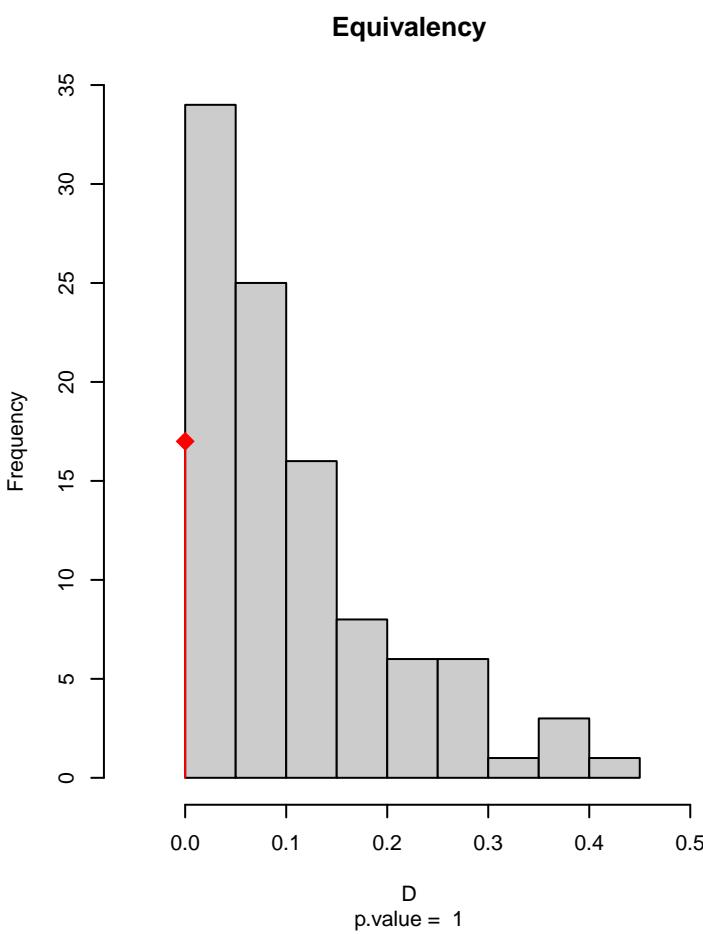
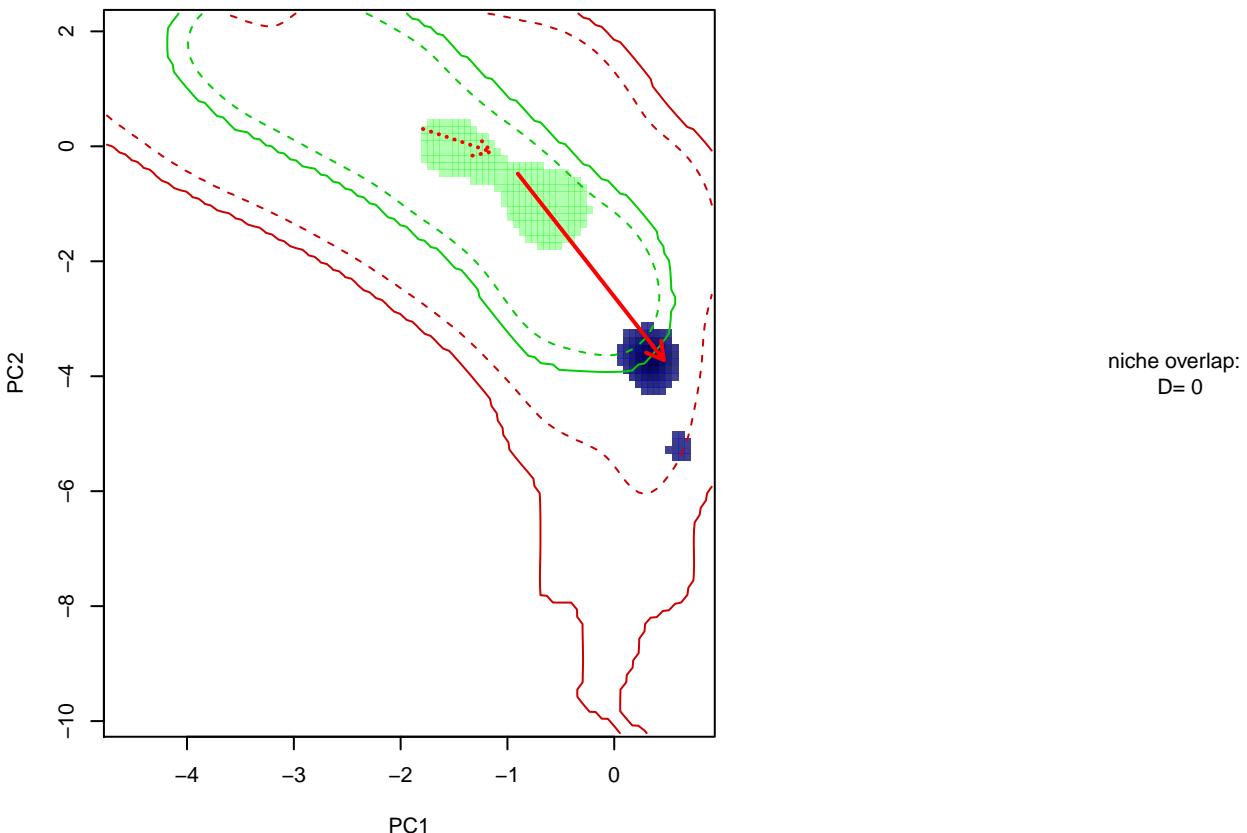
Similarity 2→1



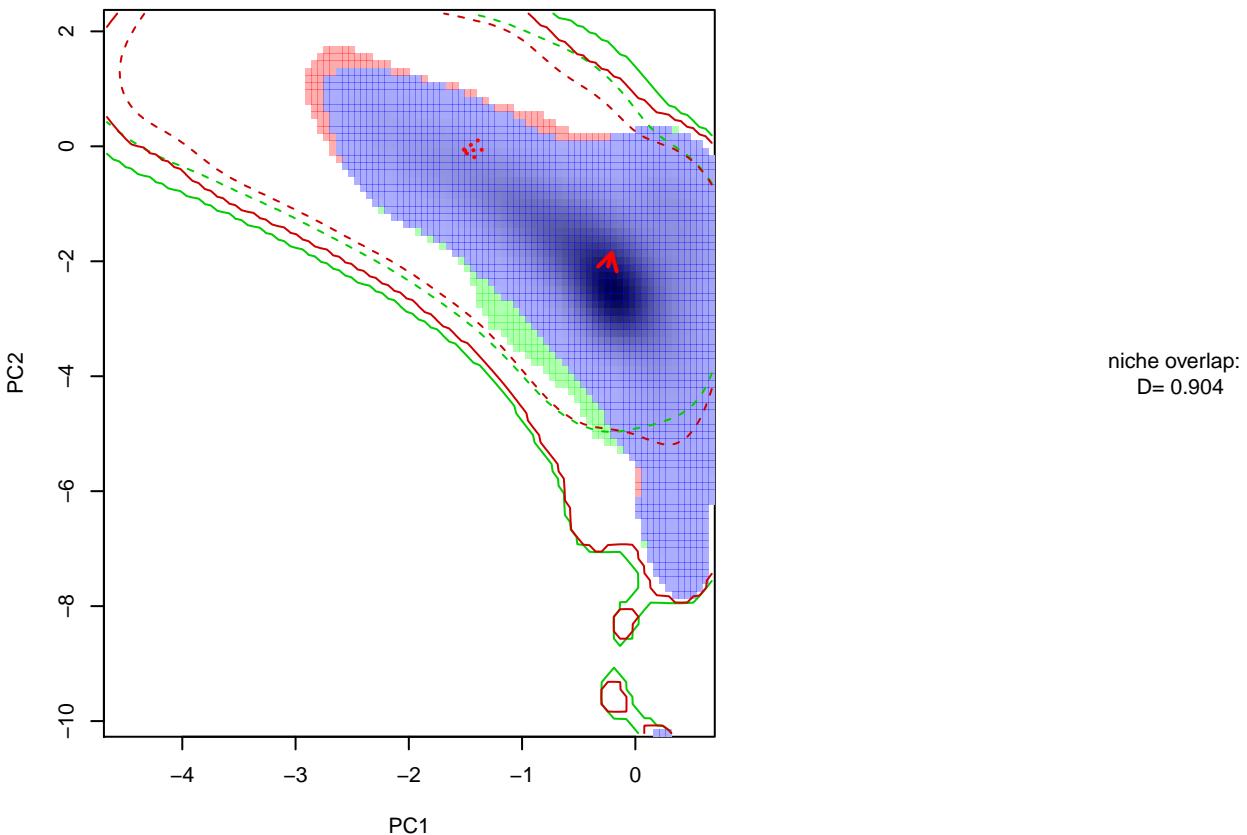
Similarity 1→2



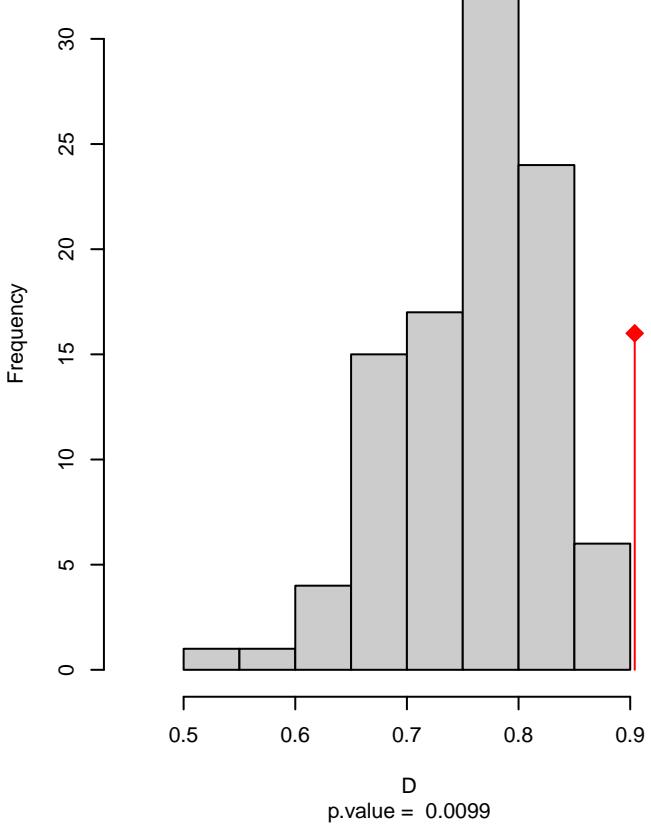
Psalidoprocne_fuliginosa seasonal overlap



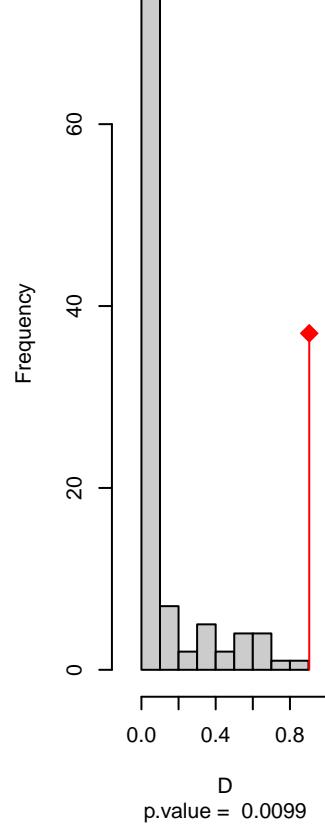
Psalidoprocne nitens seasonal overlap



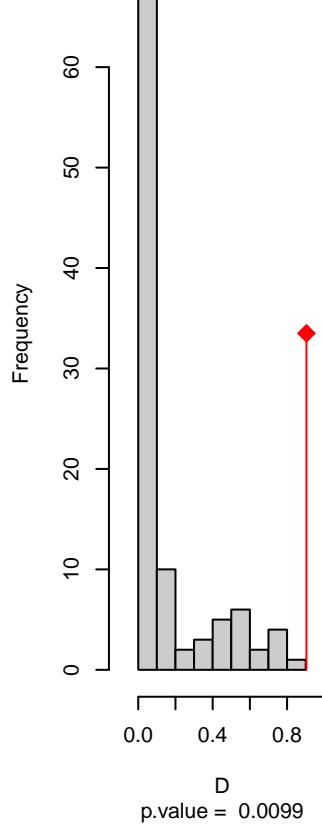
Equivalency



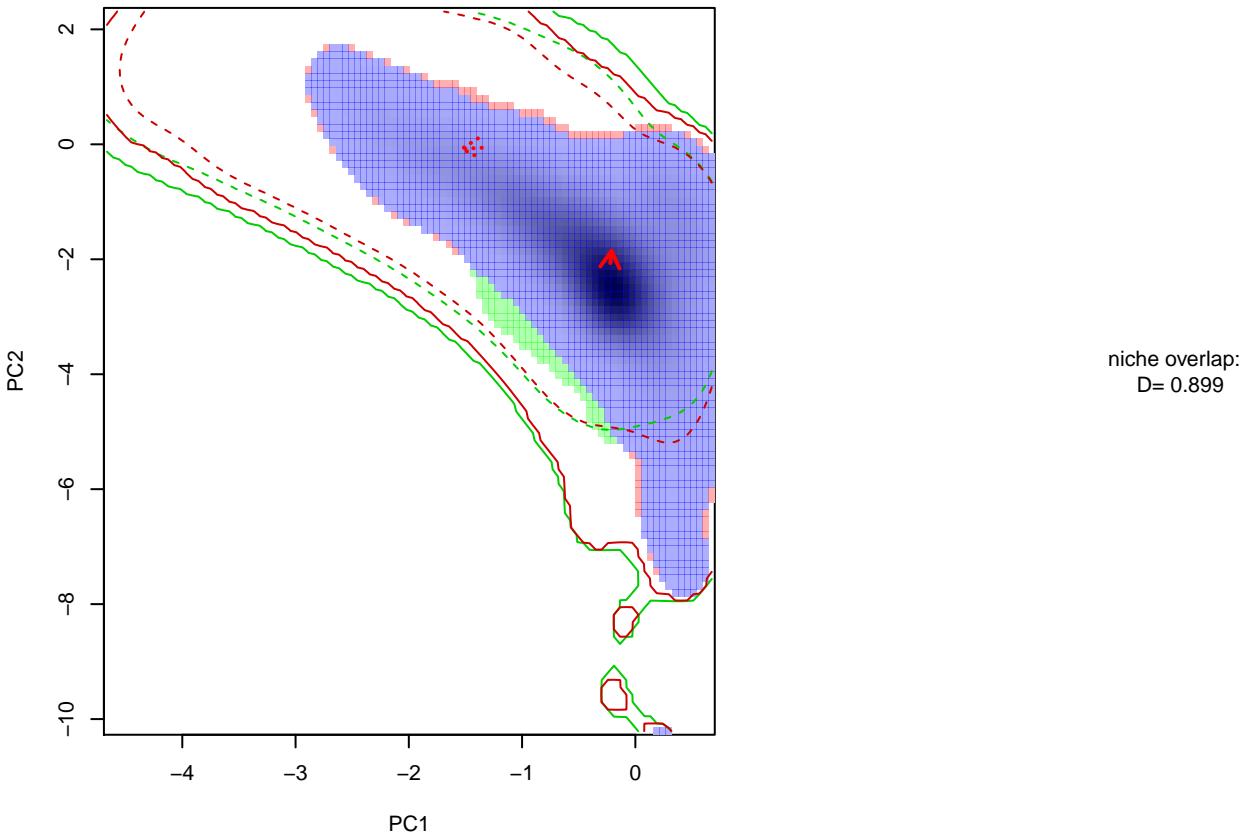
Similarity 2→1



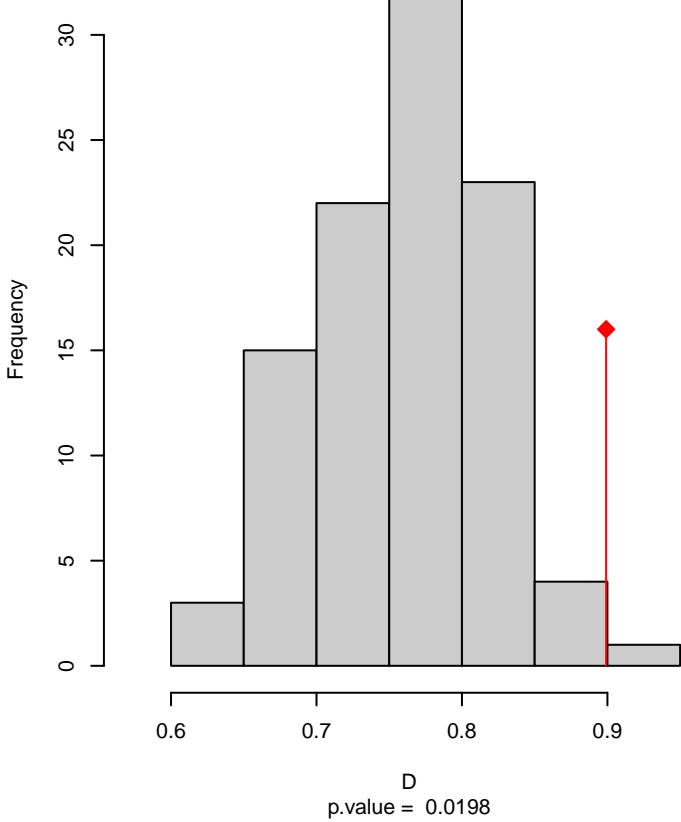
Similarity 1→2



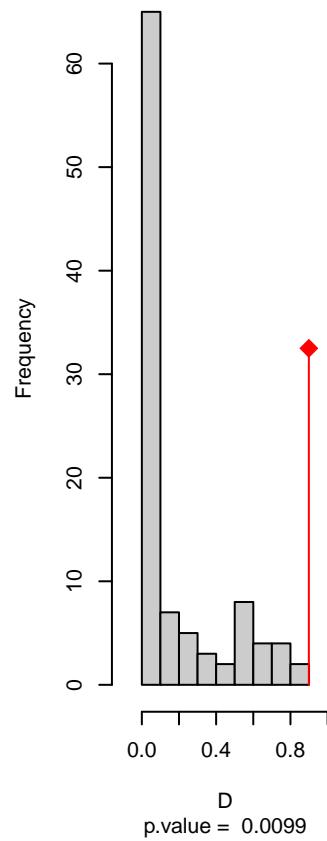
Psalidoprocne nitens seasonal overlap-hypo.br



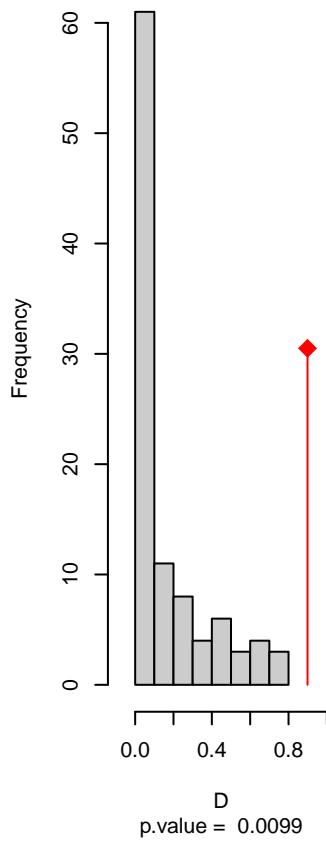
Equivalency



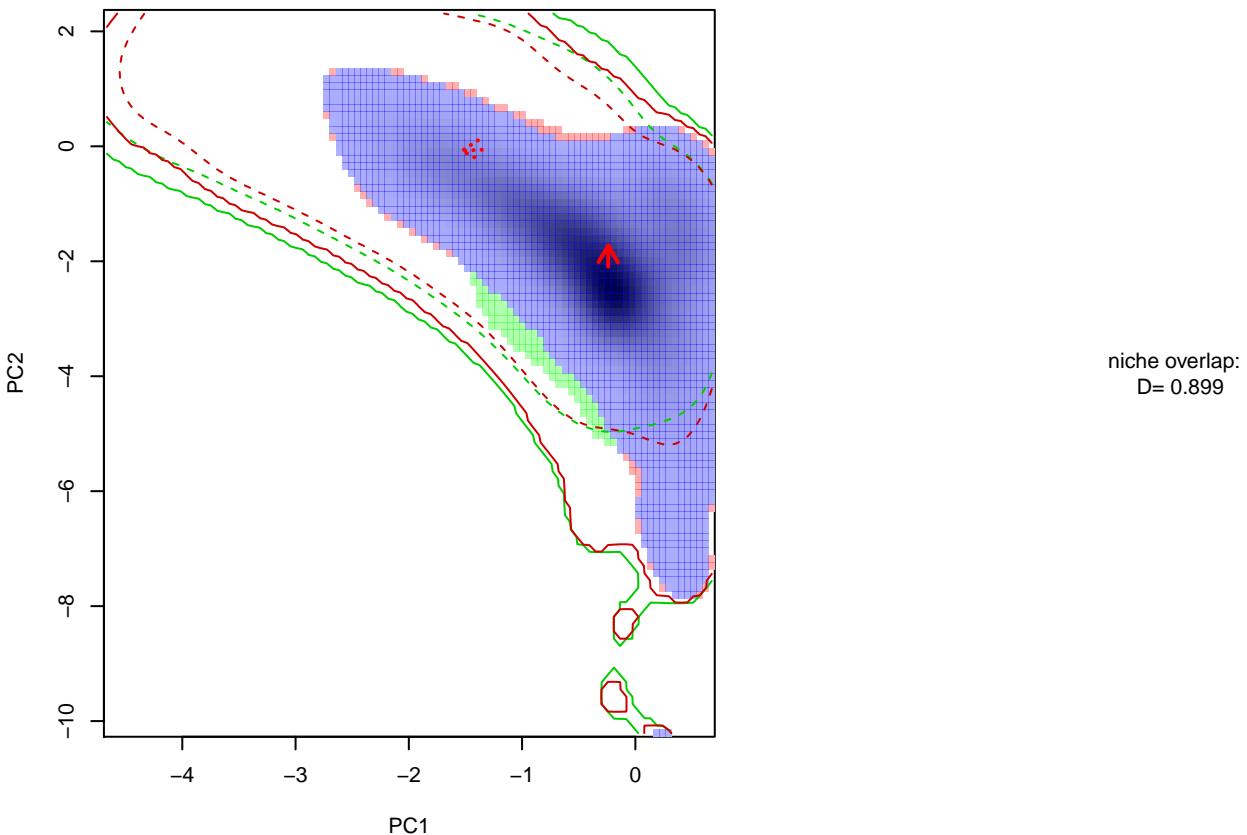
Similarity 2→1



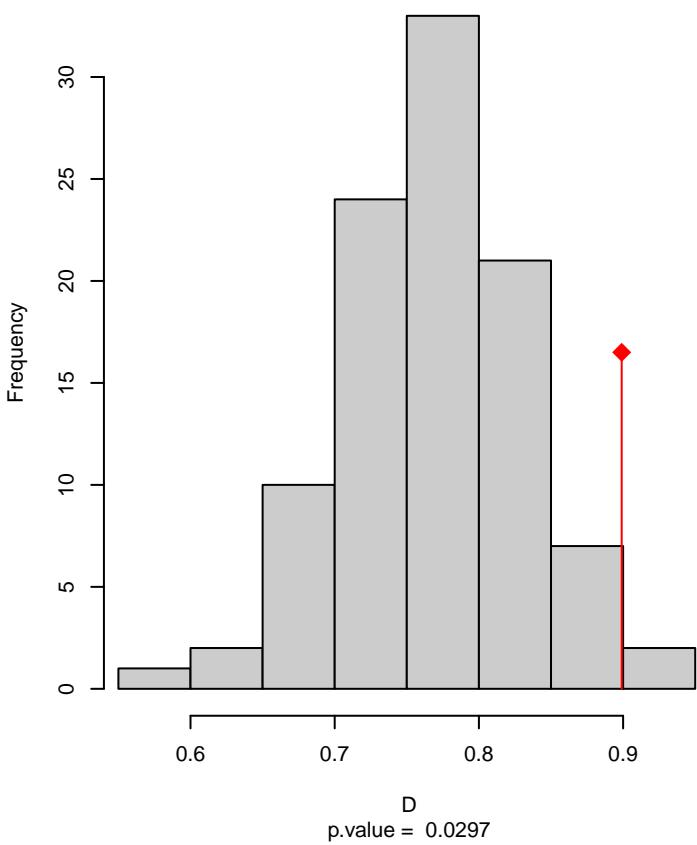
Similarity 1→2



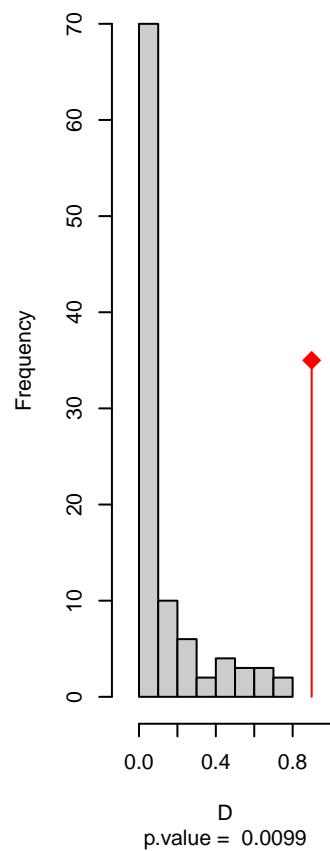
Psalidoprocne nitens seasonal overlap-hypo wi



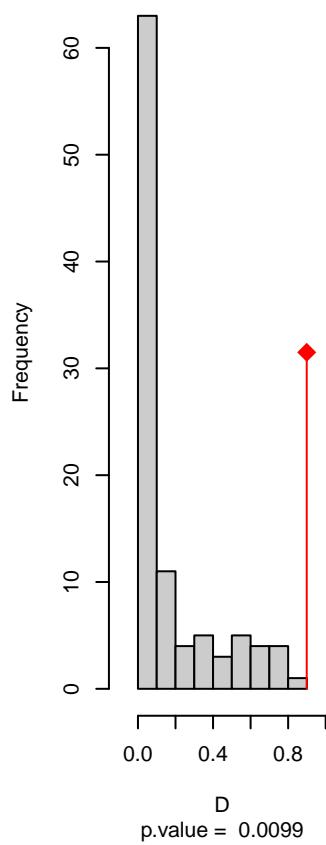
Equivalency



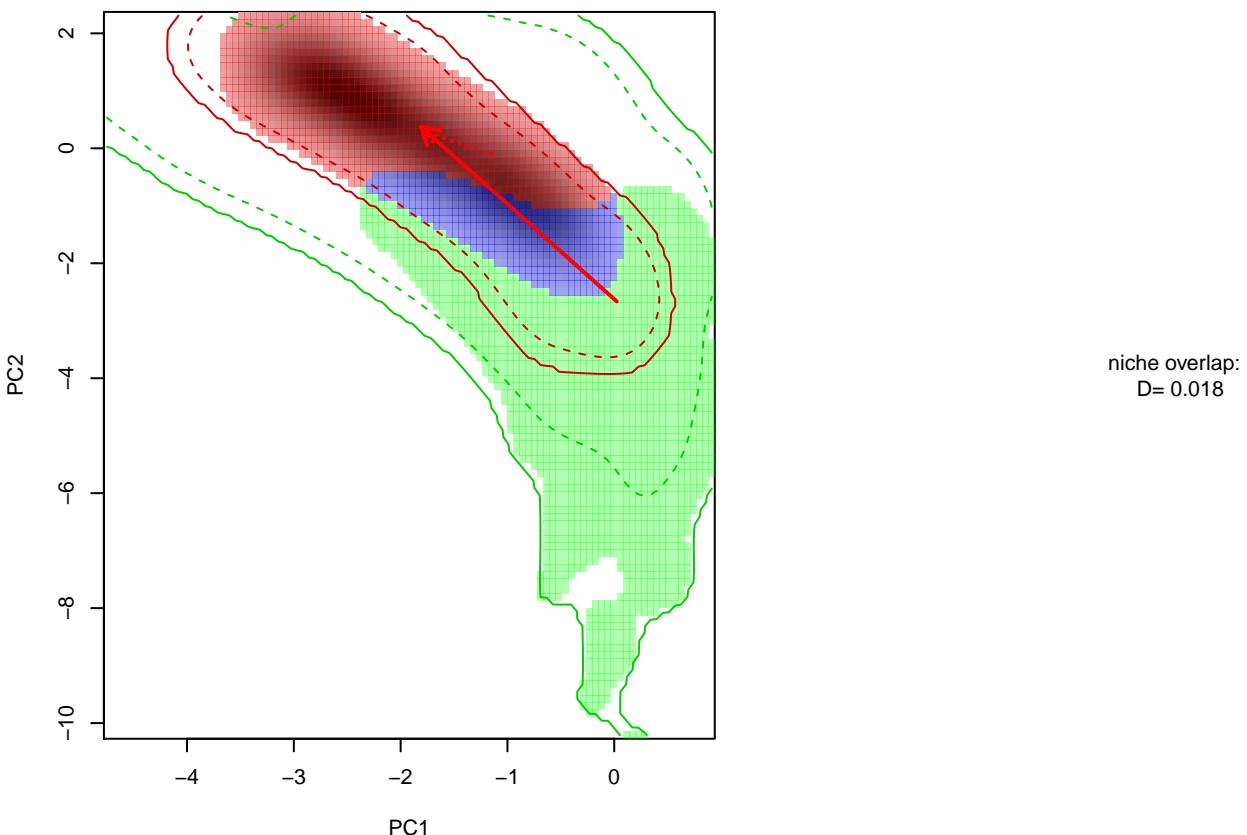
Similarity 2→1



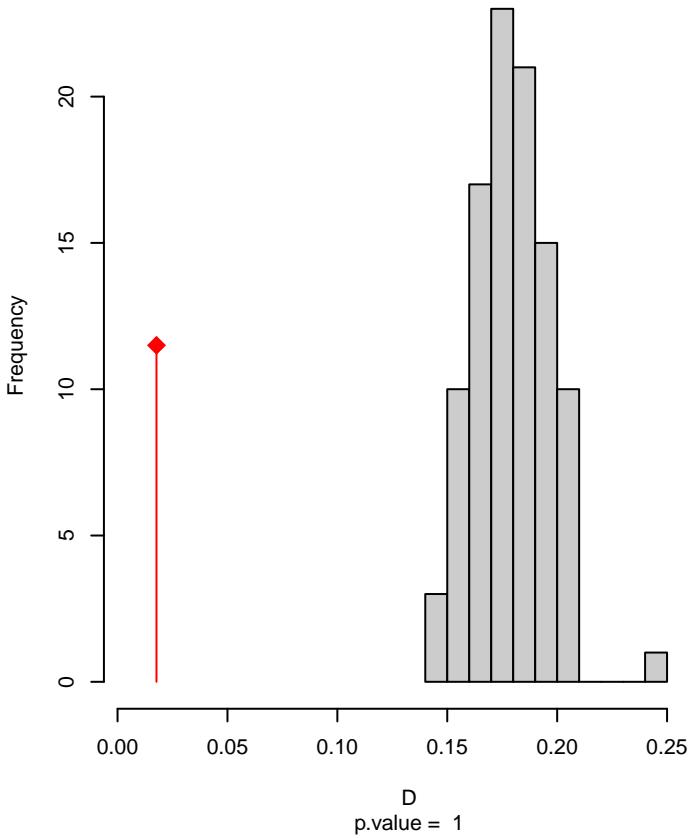
Similarity 1→2



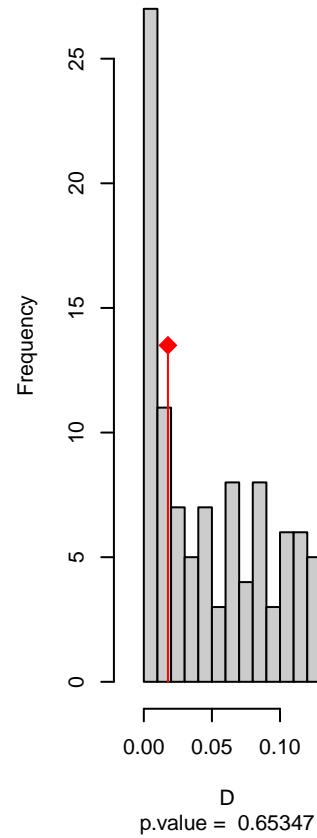
Psalidoprocne obscura seasonal overlap



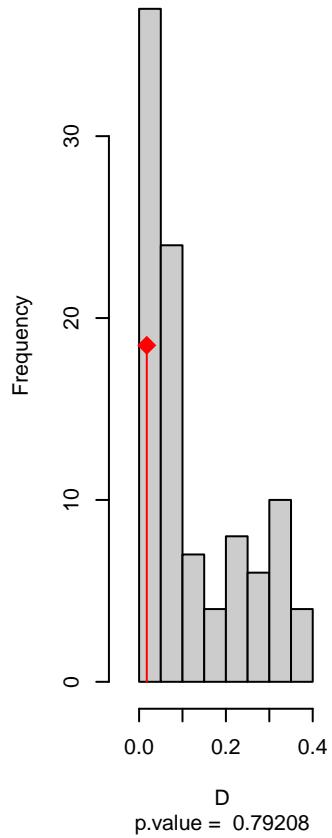
Equivalency



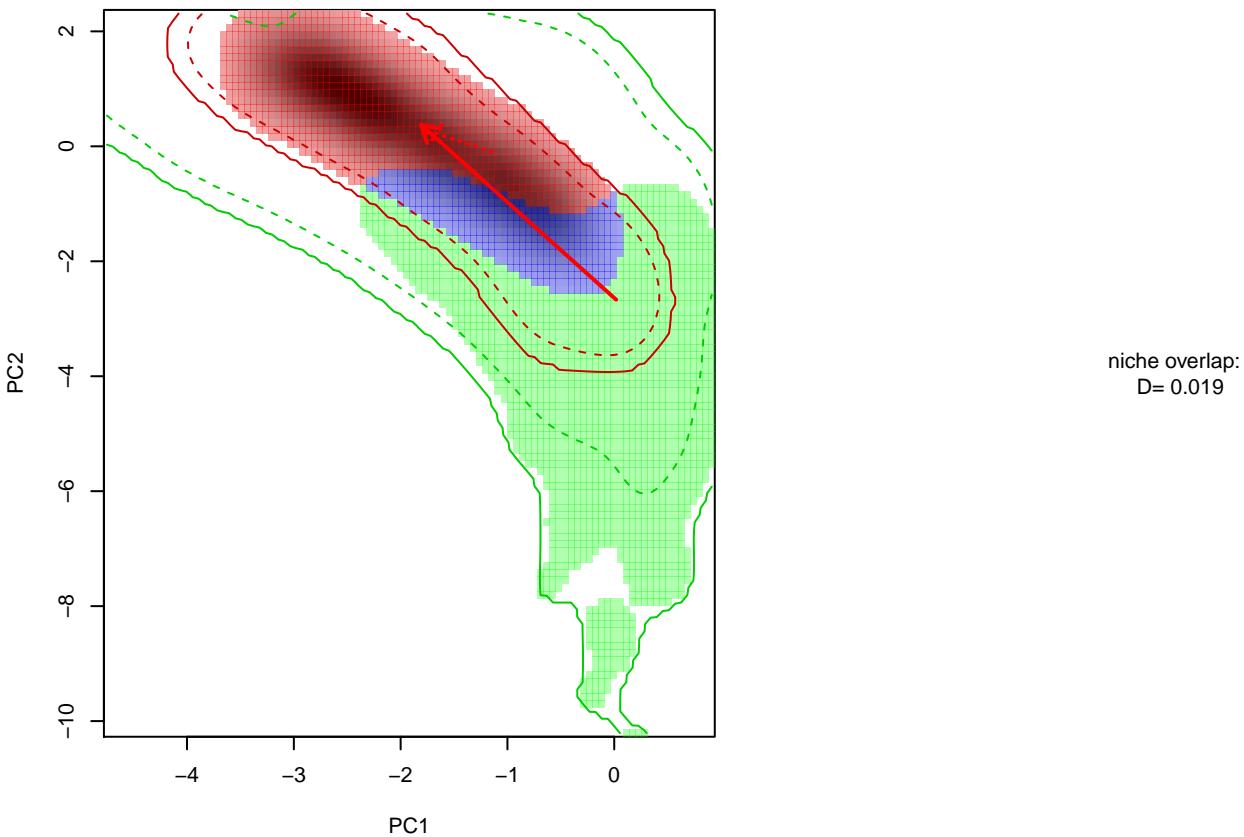
Similarity 2→1



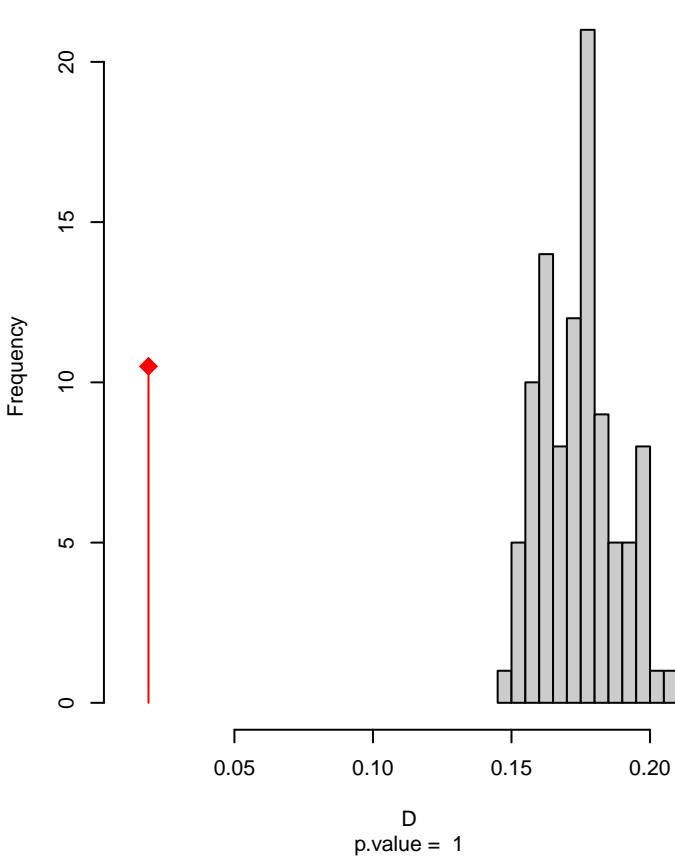
Similarity 1→2



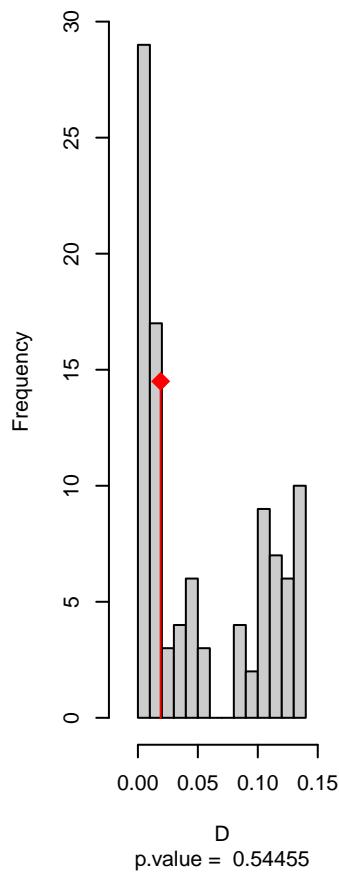
Psalidoprocne obscura seasonal overlap-hypo.br



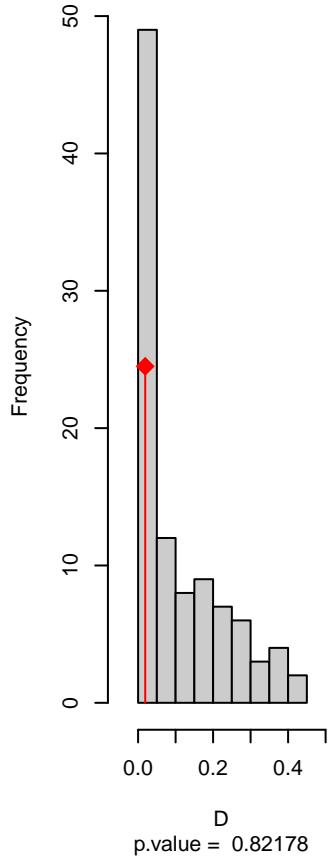
Equivalency



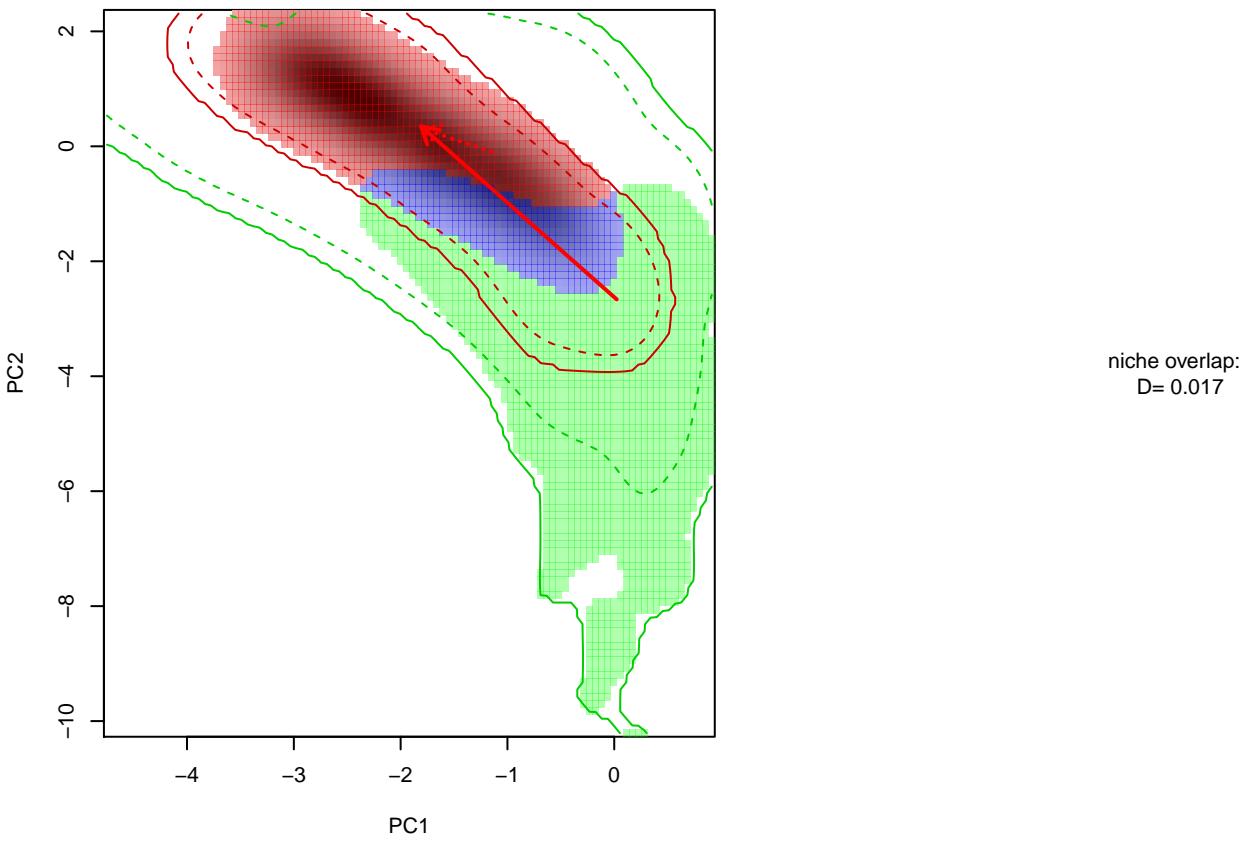
Similarity 2→1



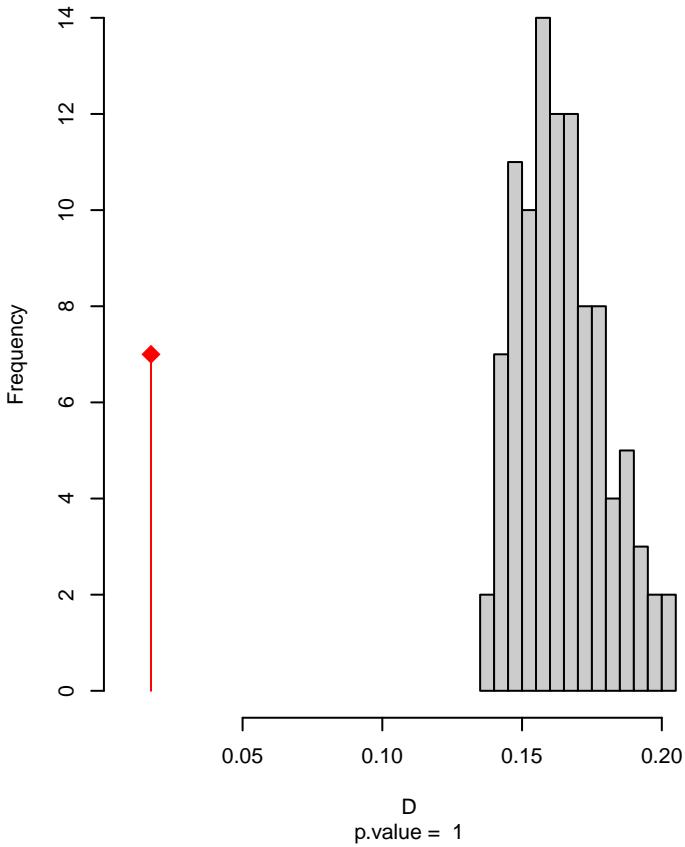
Similarity 1→2



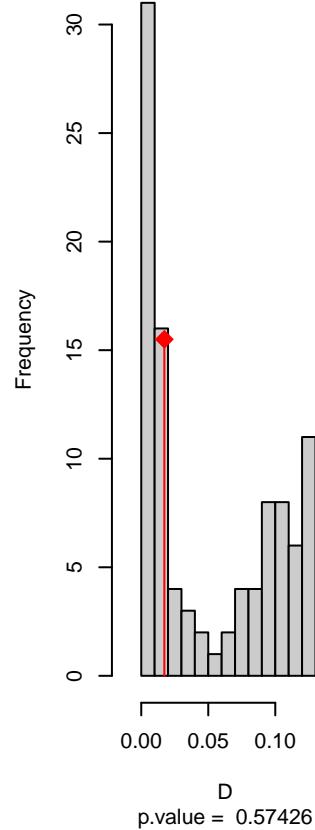
Psalidoprocne obscura seasonal overlap-hypo wi



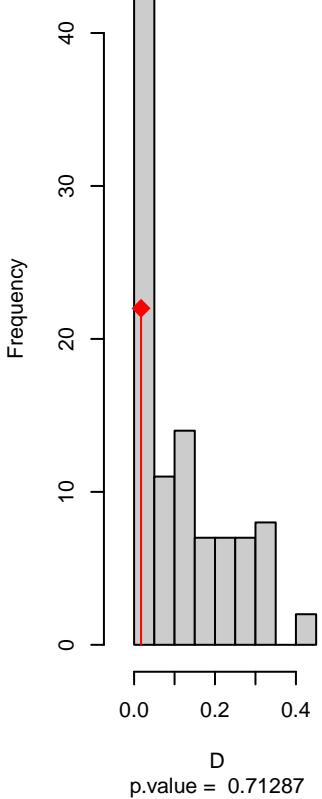
Equivalency



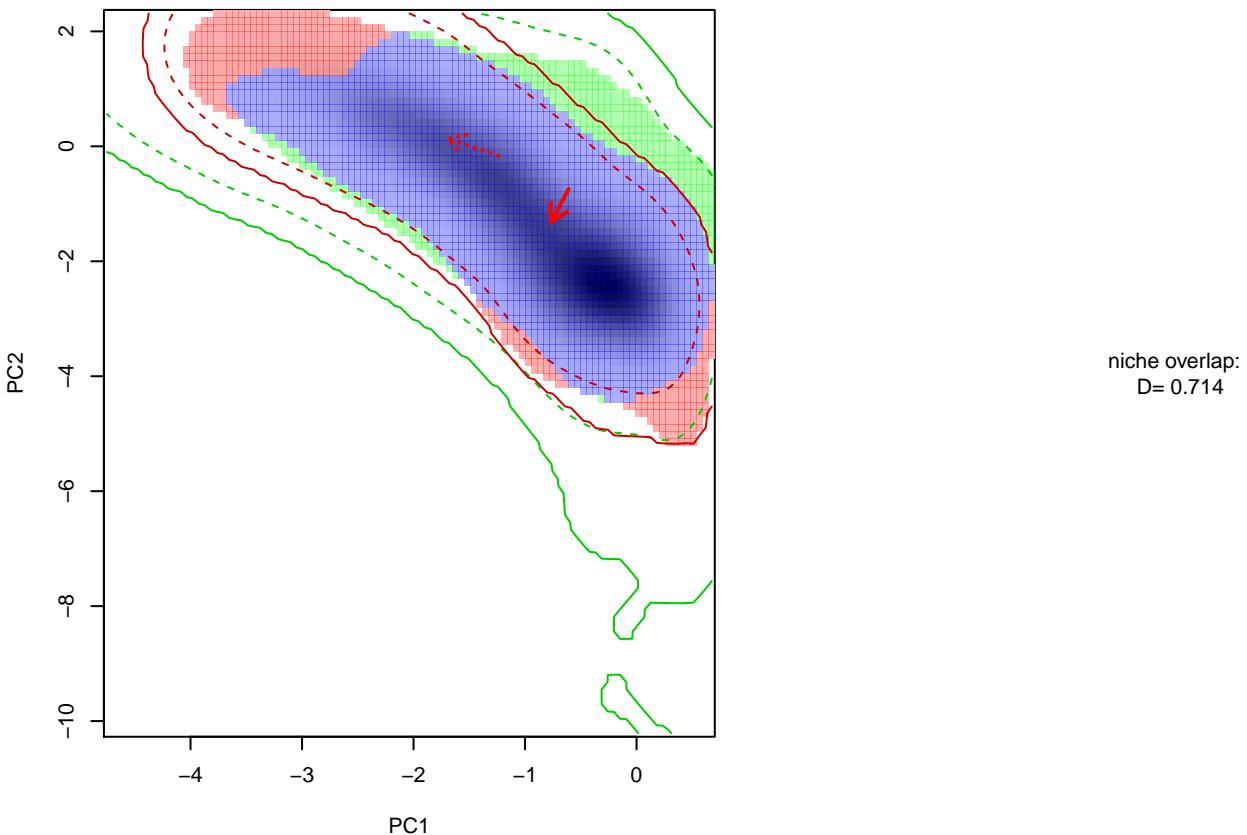
Similarity 2→1



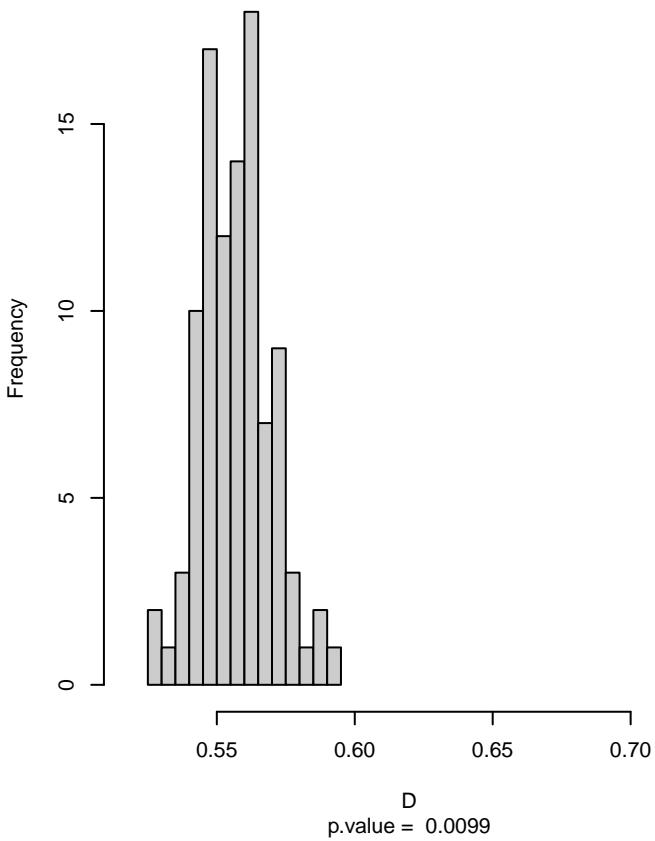
Similarity 1→2



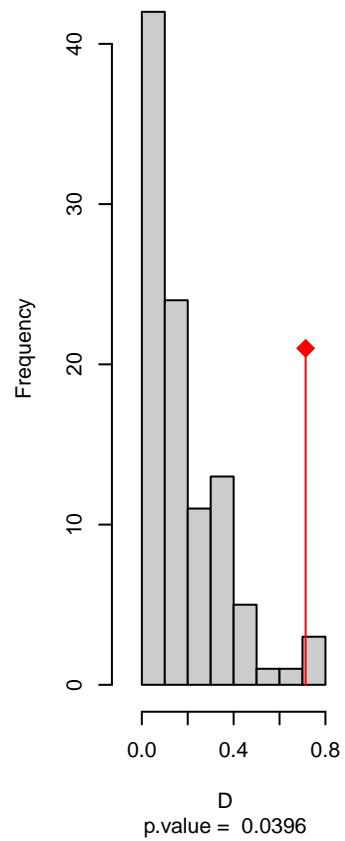
Psalidoprocne pristoptera seasonal overlap



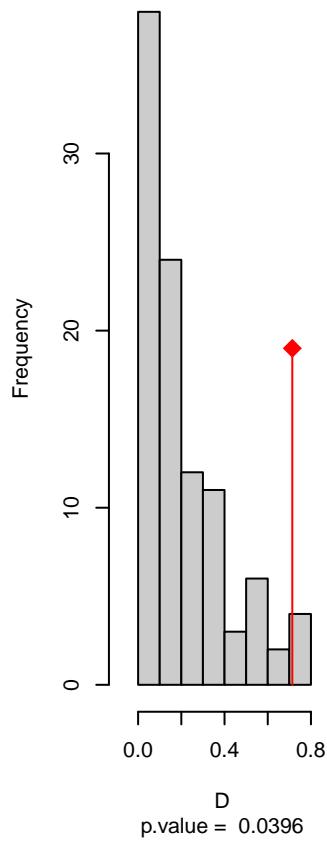
Equivalency



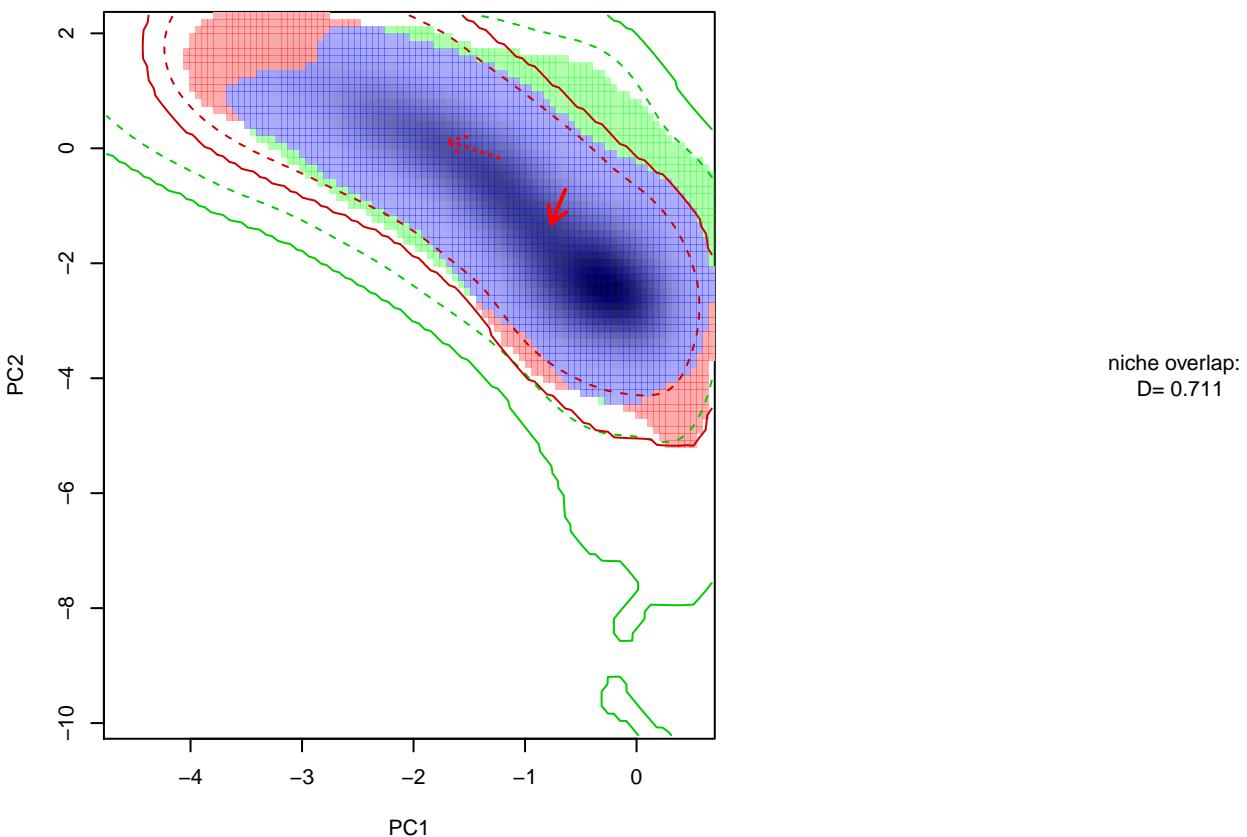
Similarity 2→1



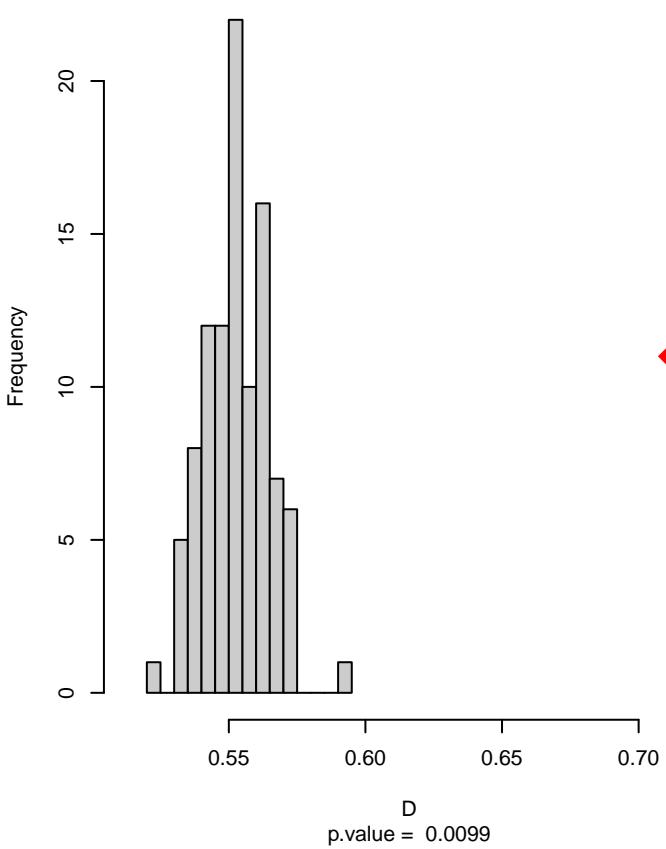
Similarity 1→2



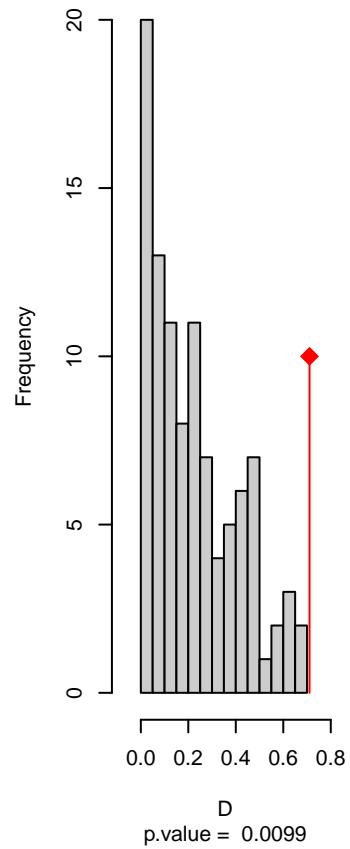
Psalidoprocne pristoptera seasonal overlap-hypo.br



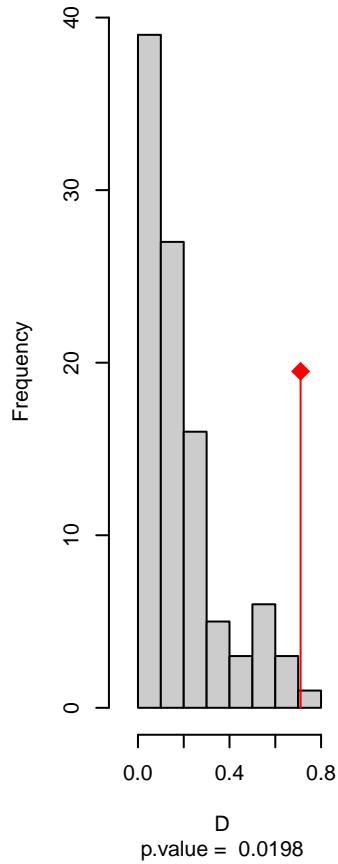
Equivalency



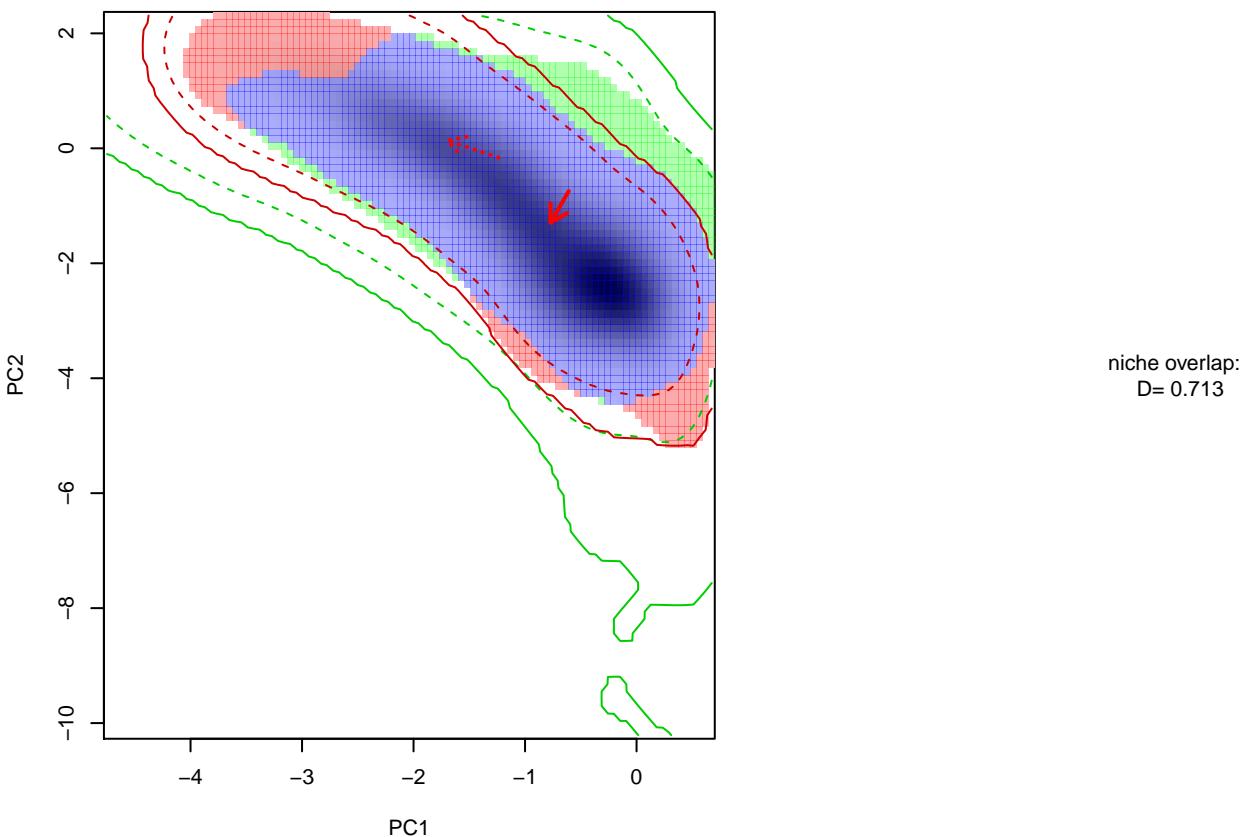
Similarity 2→1



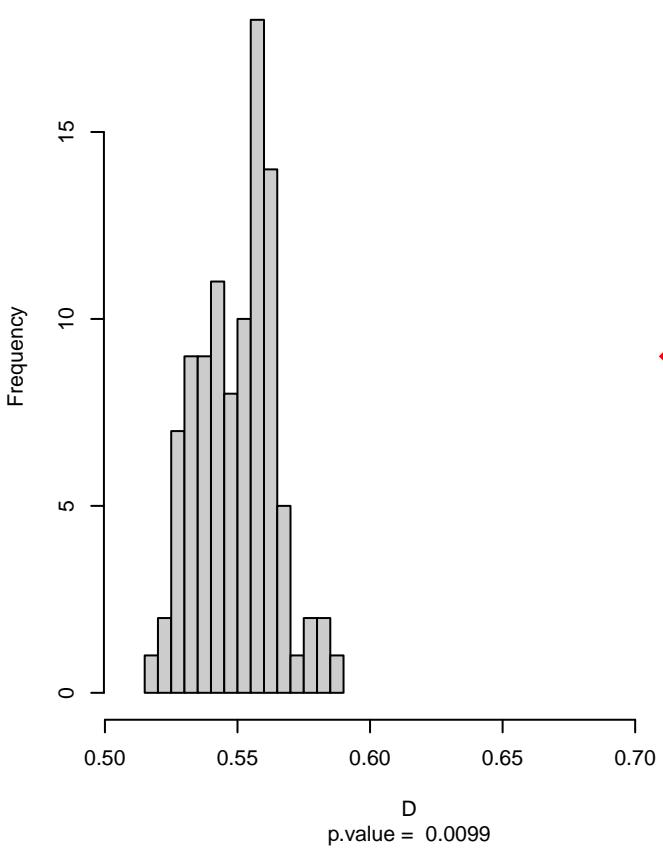
Similarity 1→2



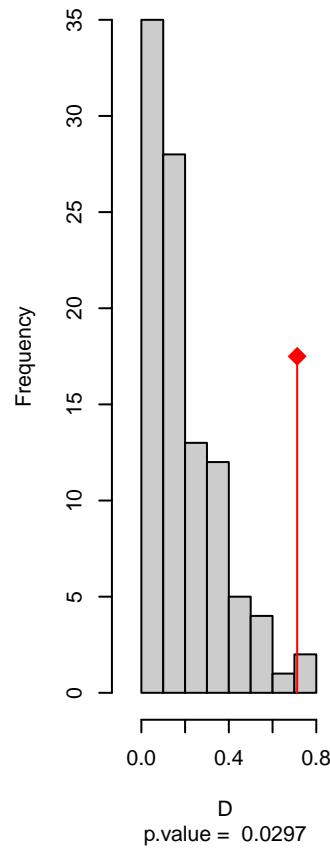
Psalidoprocne pristoptera seasonal overlap-hypo wi



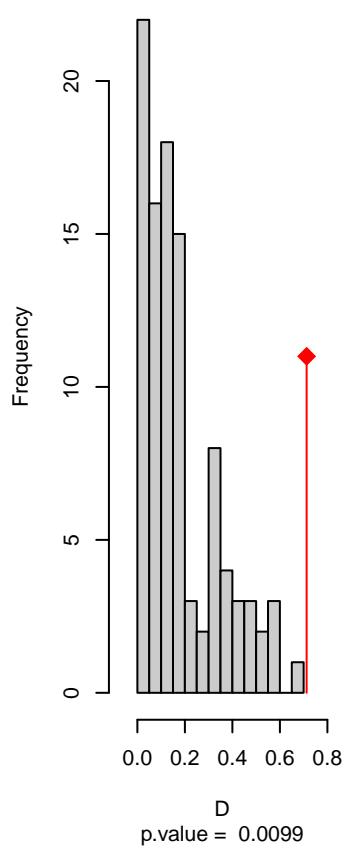
Equivalency



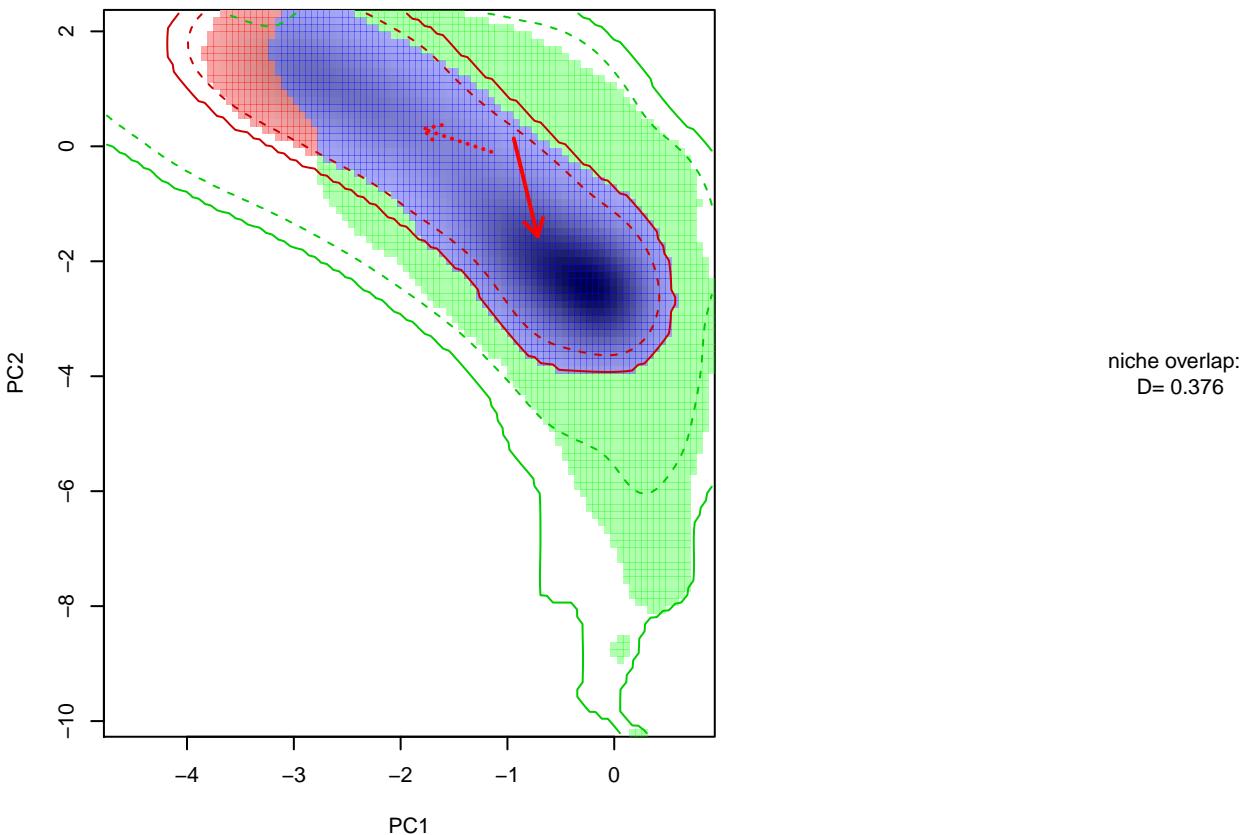
Similarity 2→1



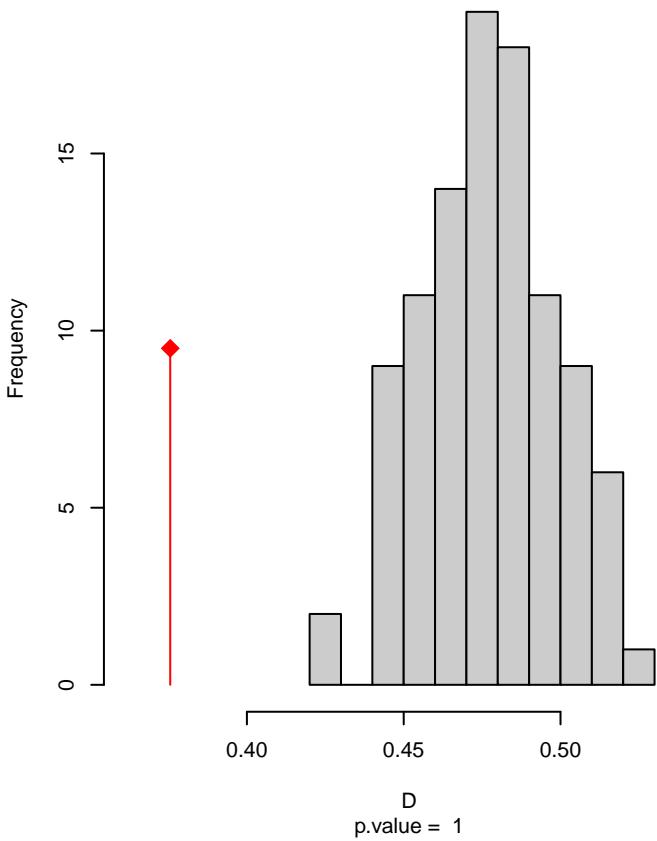
Similarity 1→2



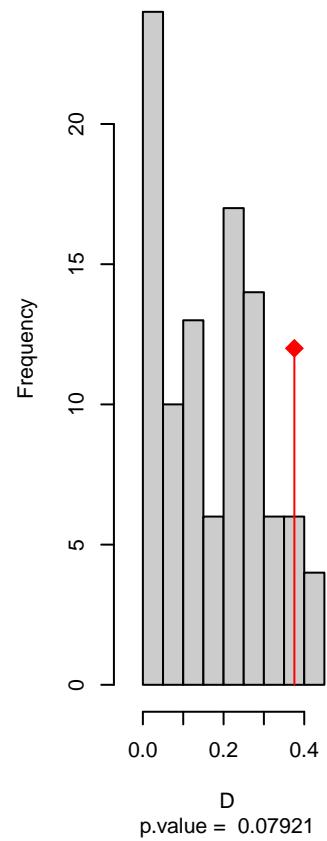
Pseudhirundo_griseopyga seasonal overlap



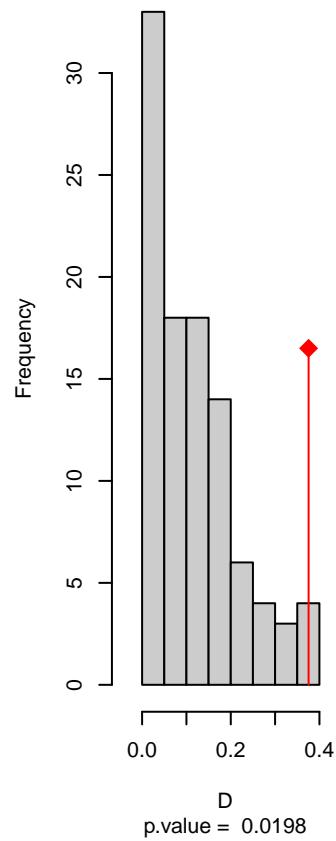
Equivalency



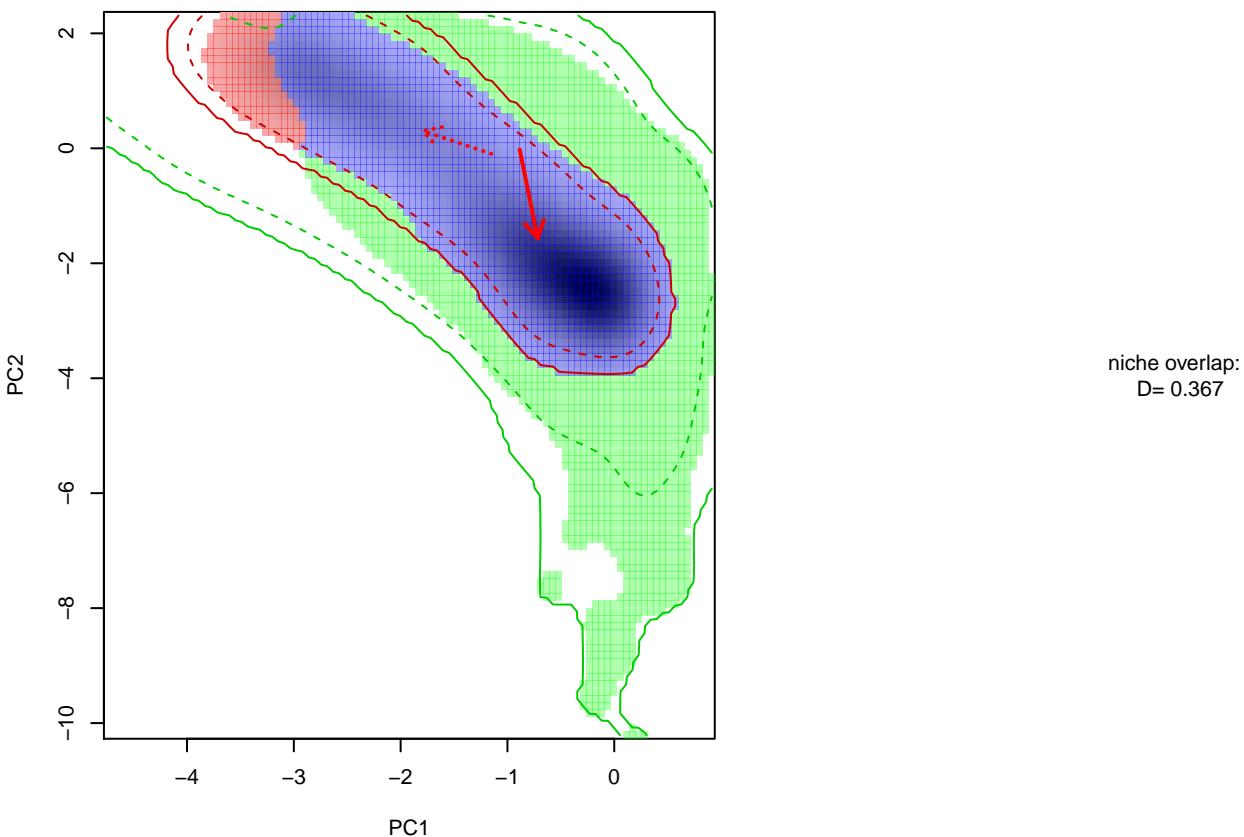
Similarity 2→1



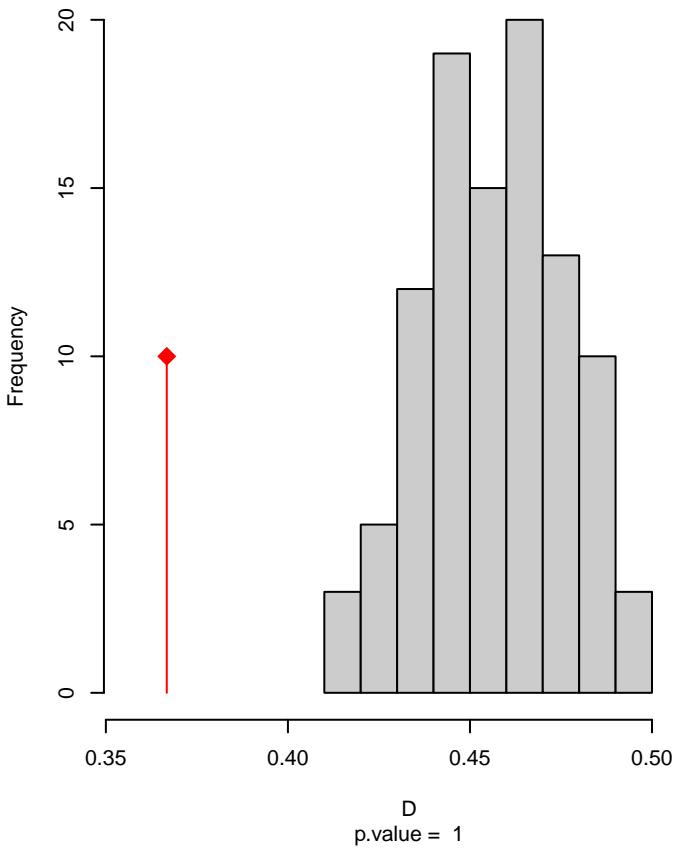
Similarity 1→2



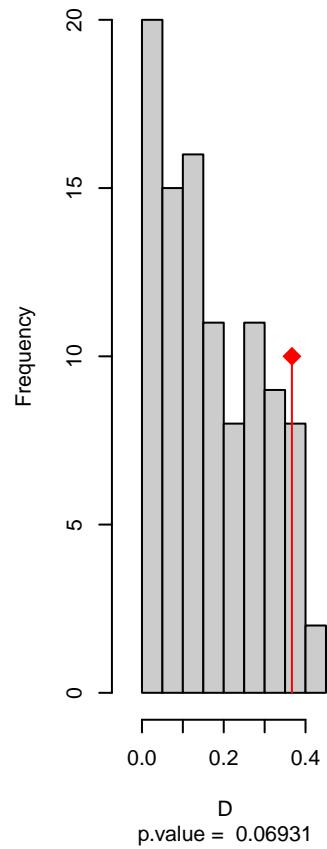
Pseudhirundo_griseopyga seasonal overlap-hypo.br



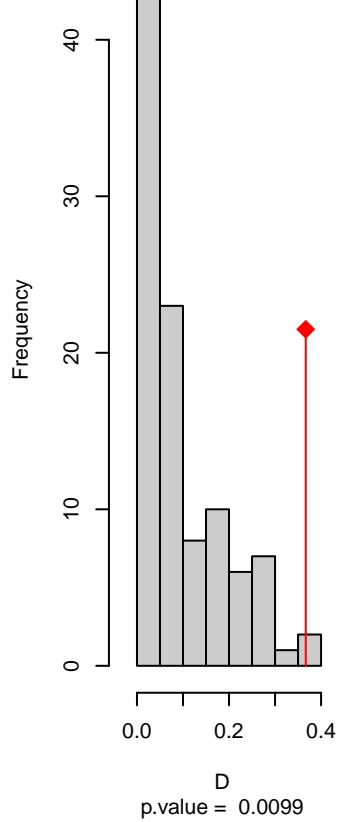
Equivalency



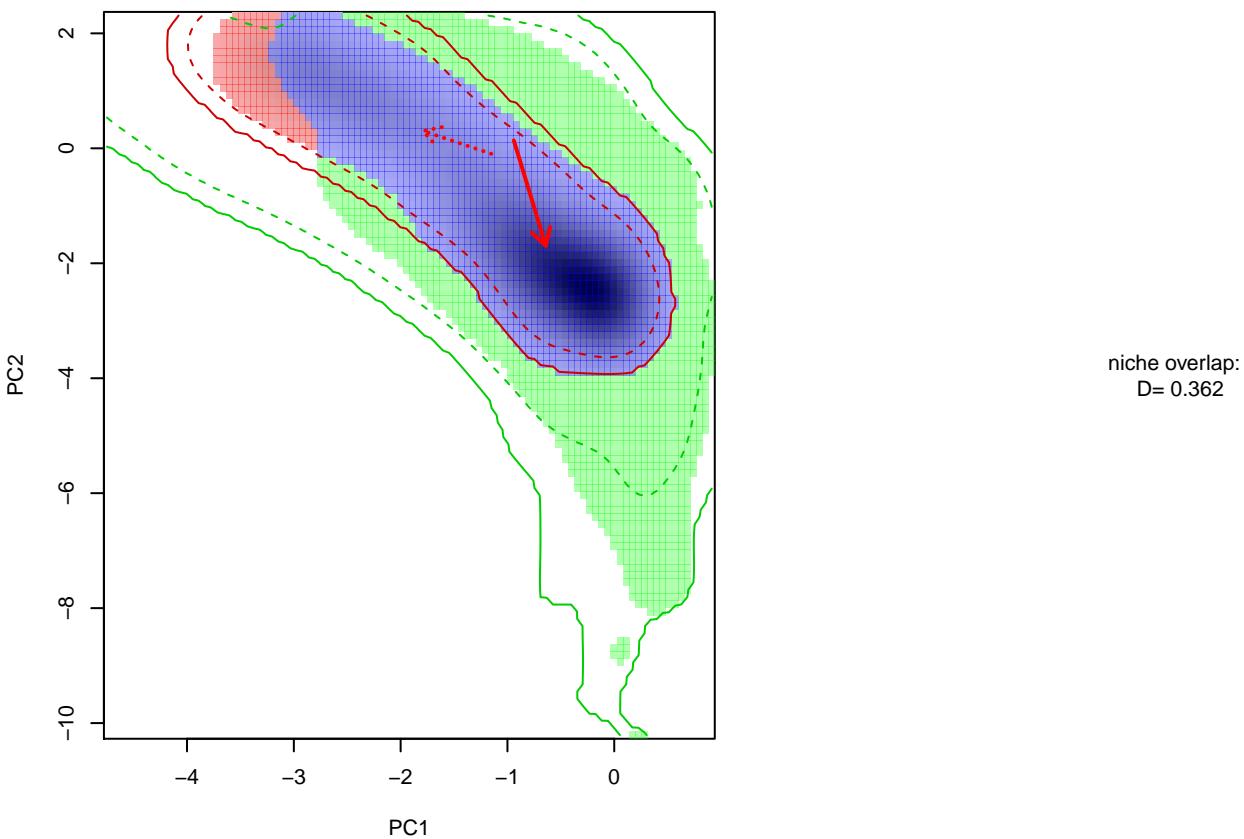
Similarity 2→1



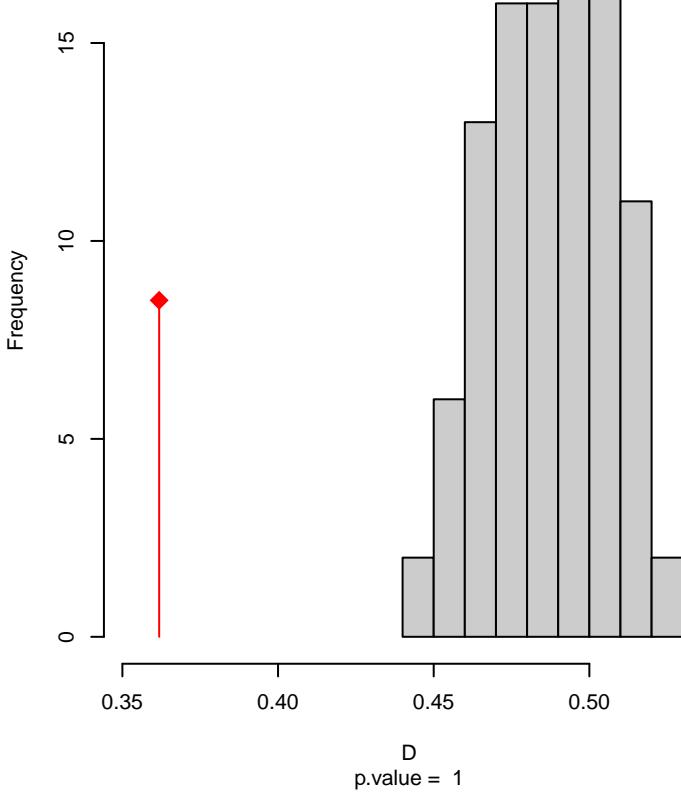
Similarity 1→2



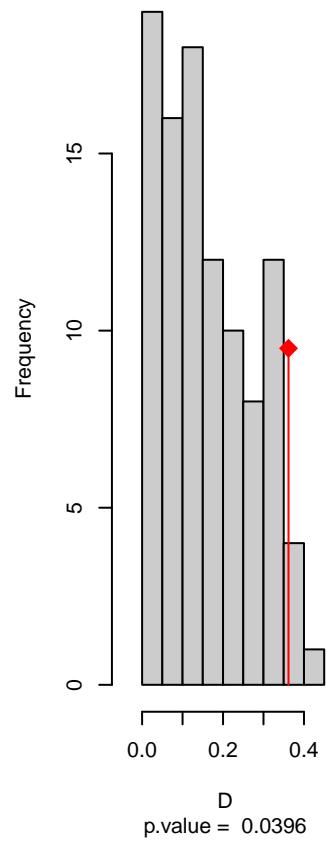
Pseudhirundo_griseopyga seasonal overlap-hypo wi



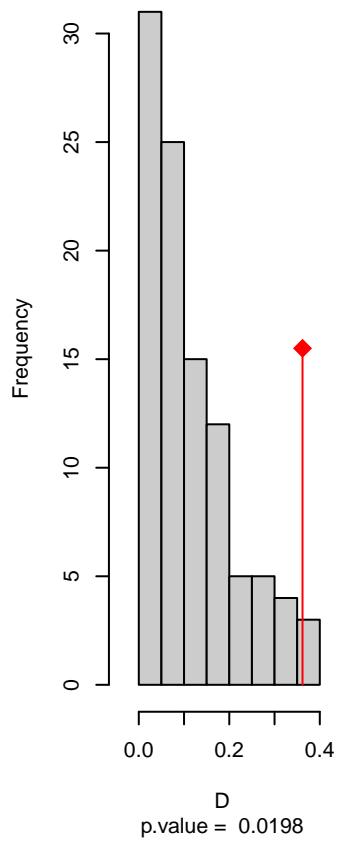
Equivalency



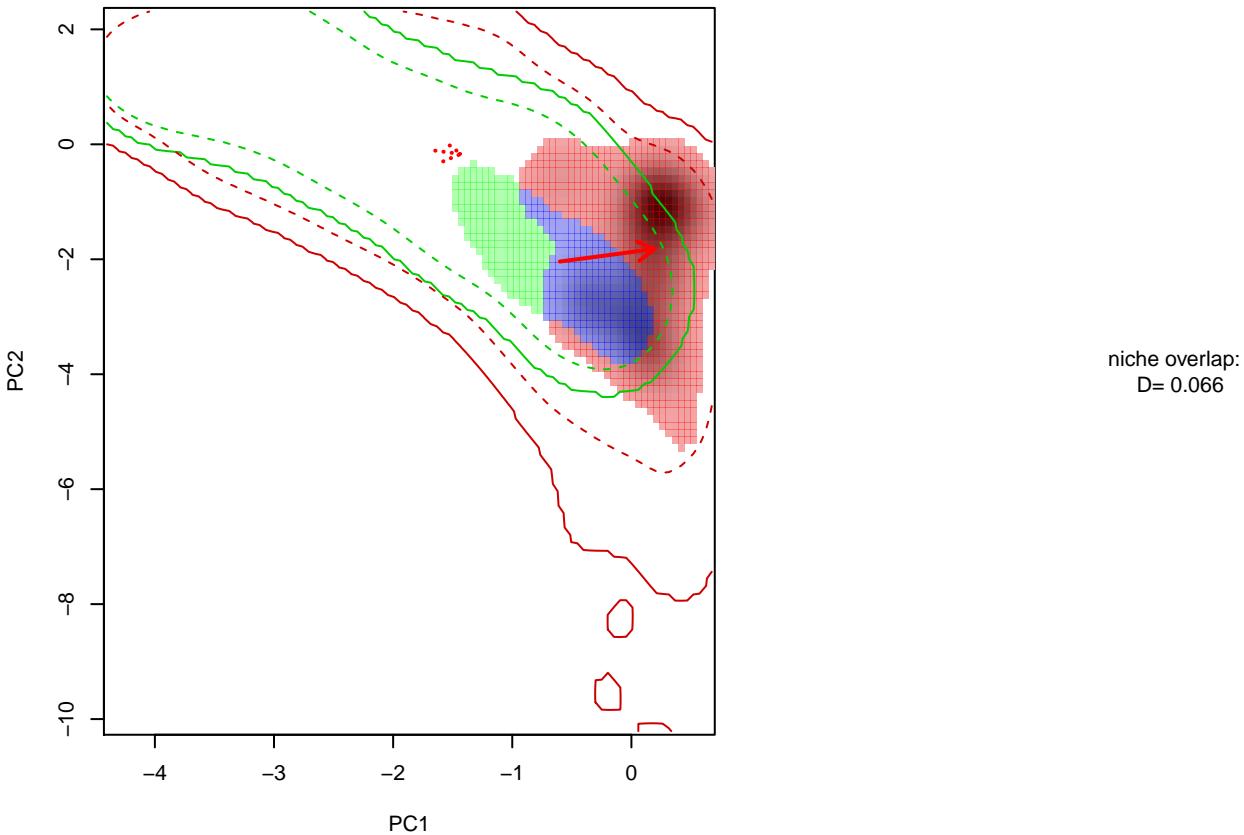
Similarity 2→1



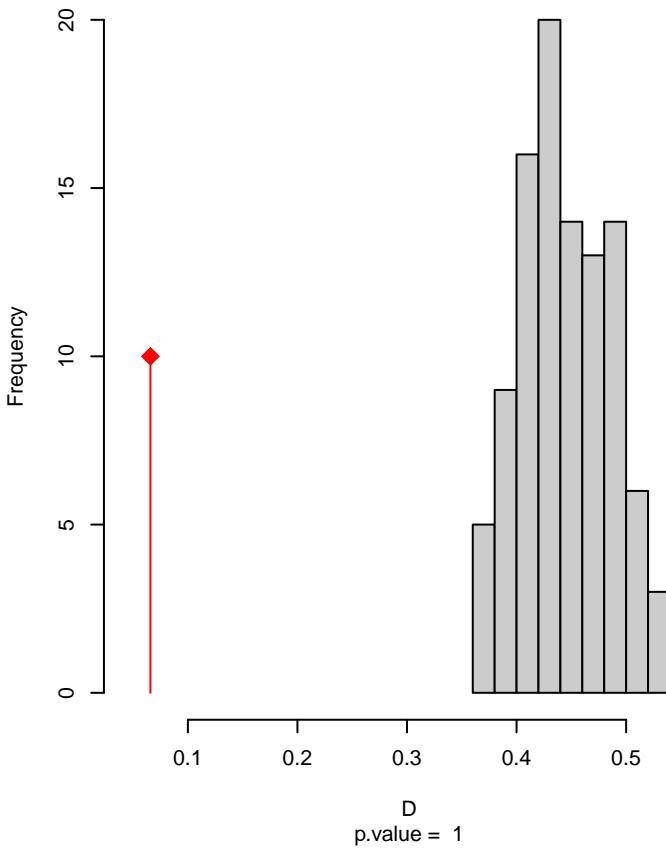
Similarity 1→2



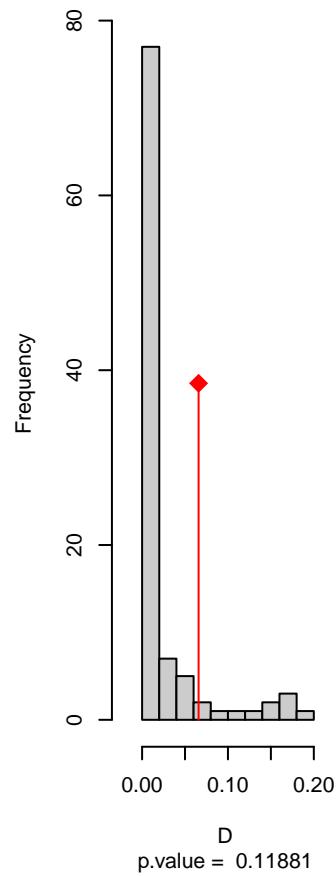
Pseudochelidon_eurystomina seasonal overlap



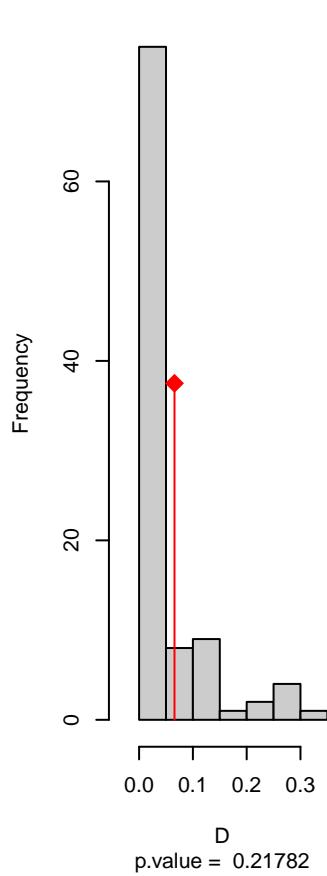
Equivalency



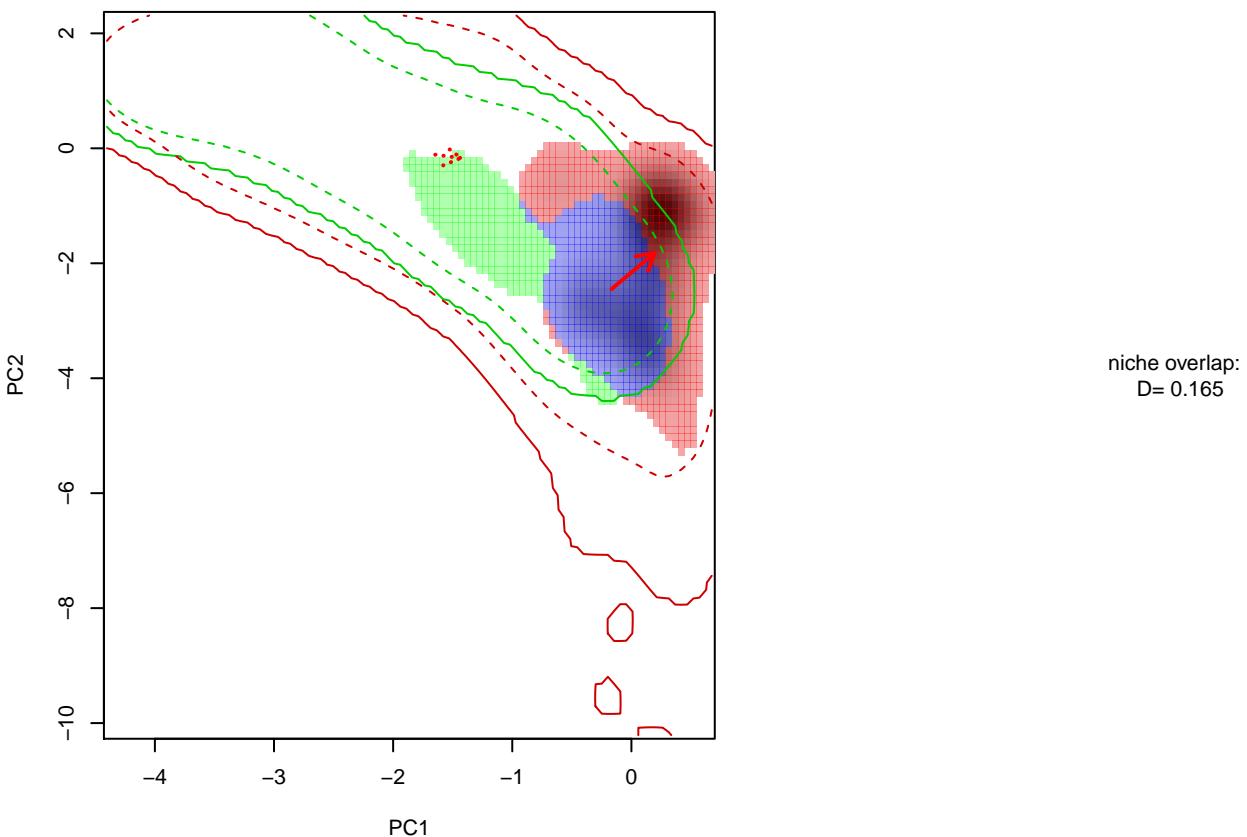
Similarity 2→1



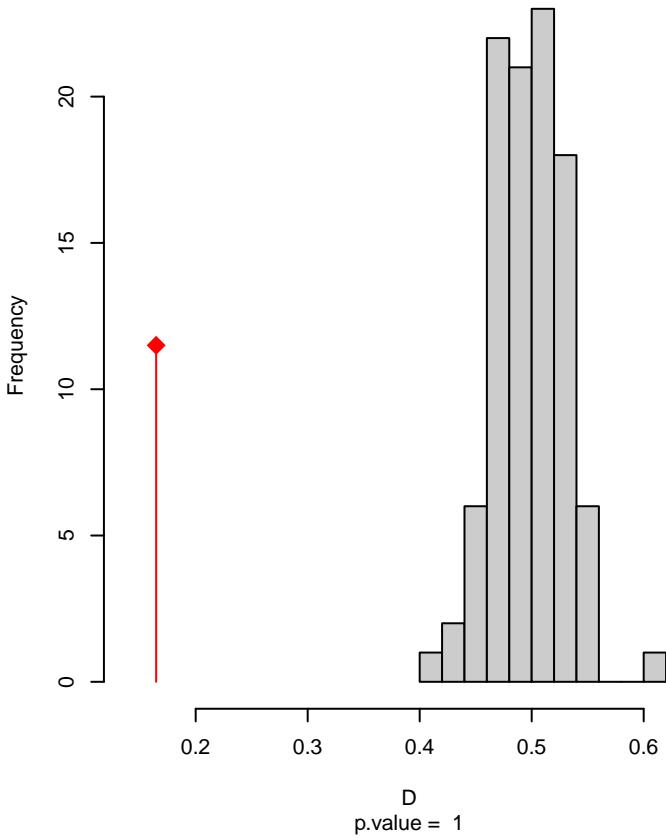
Similarity 1→2



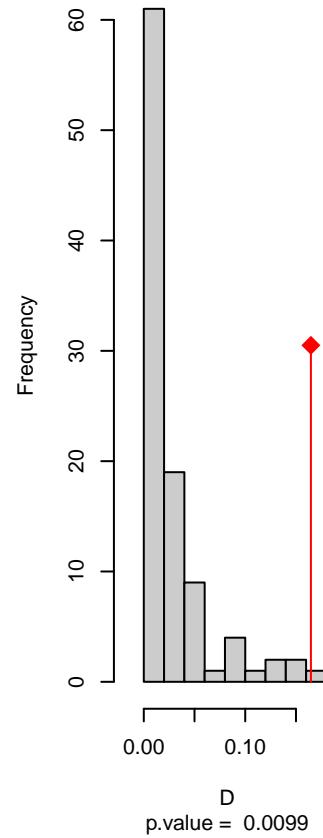
Pseudochelidon_eurystomina seasonal overlap-hypo.br



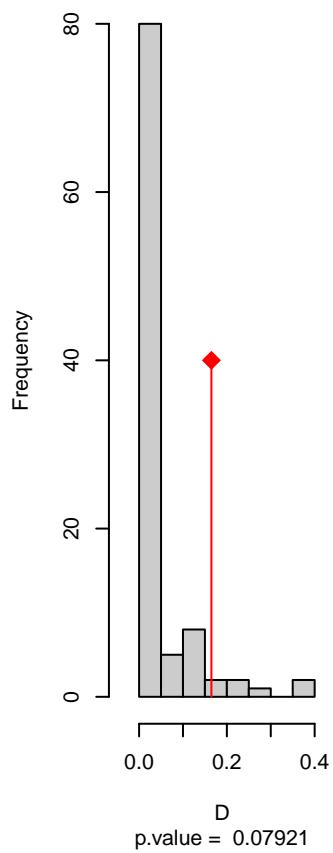
Equivalency



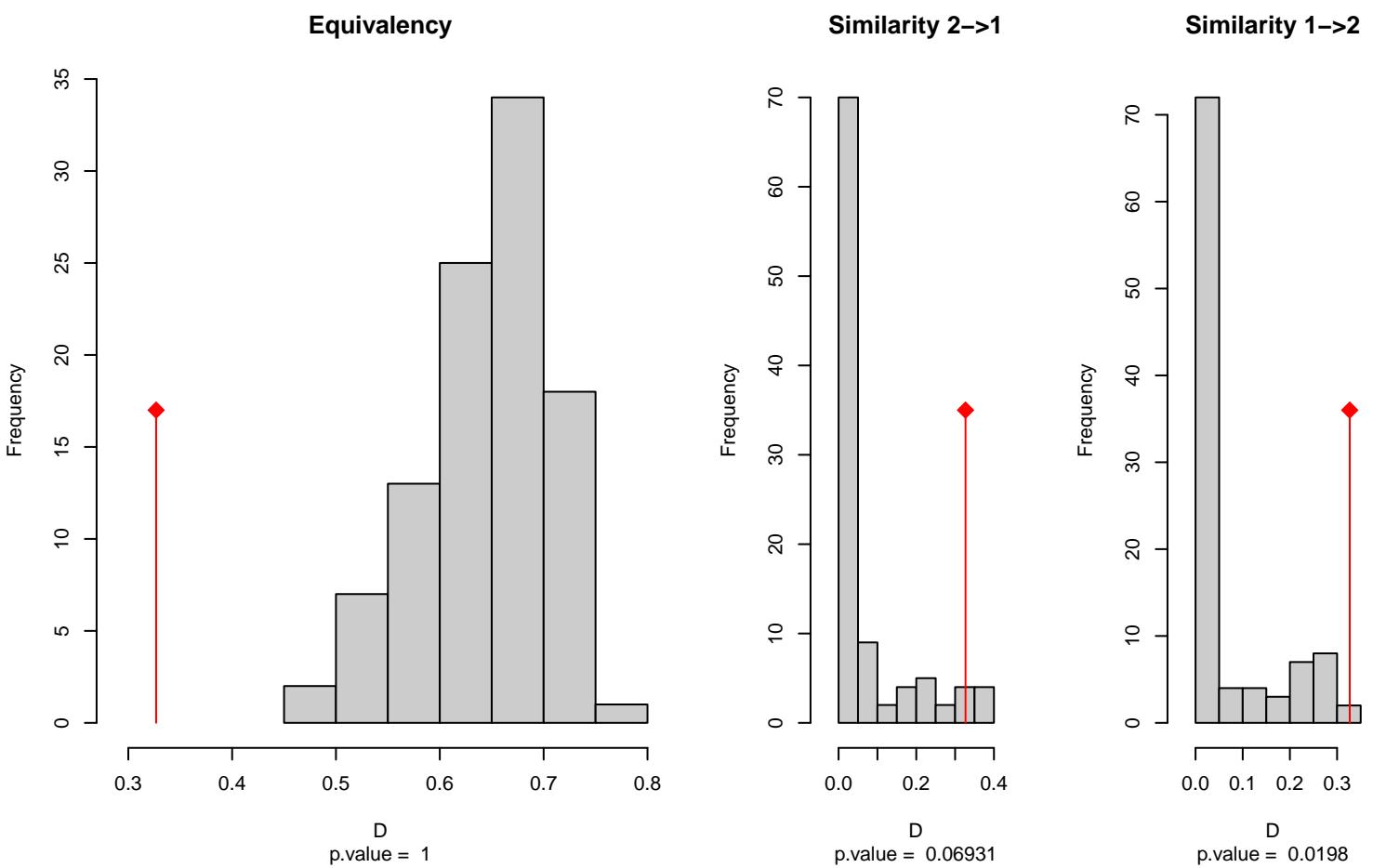
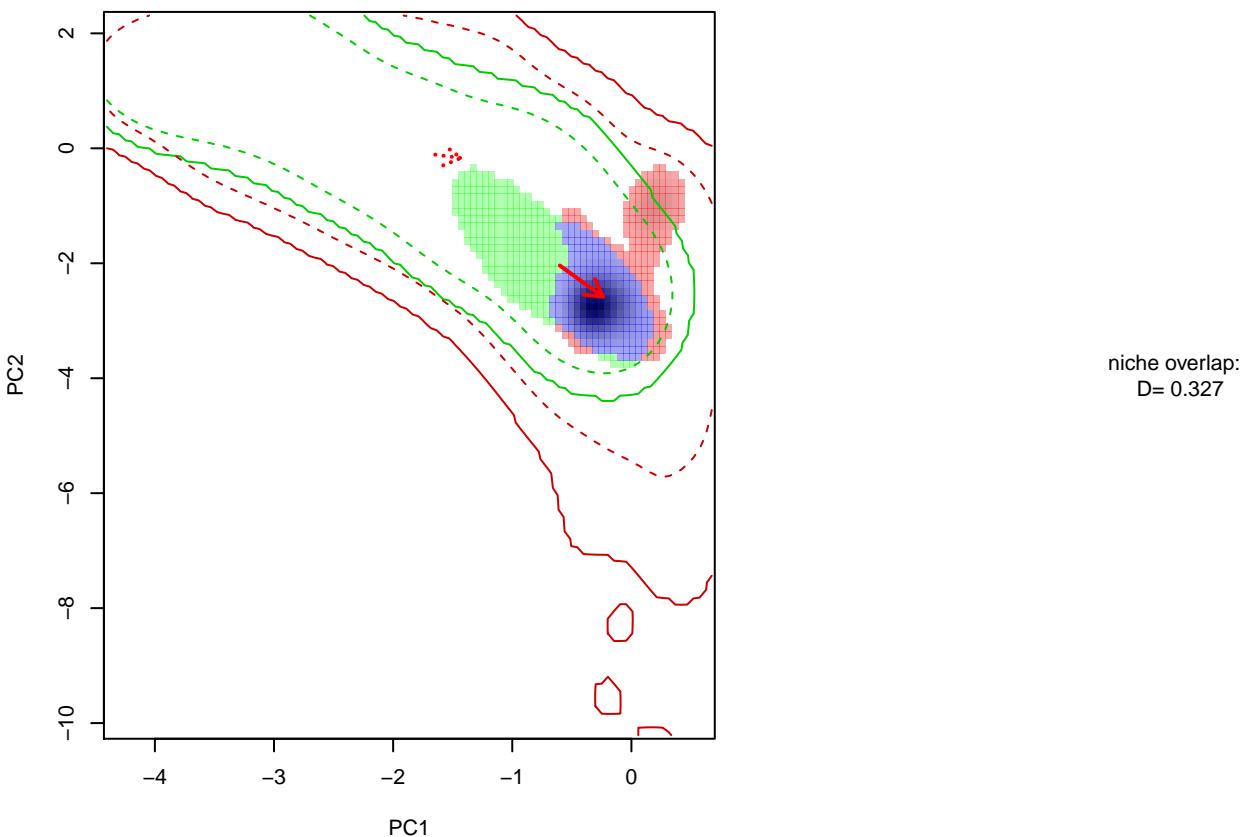
Similarity 2→1



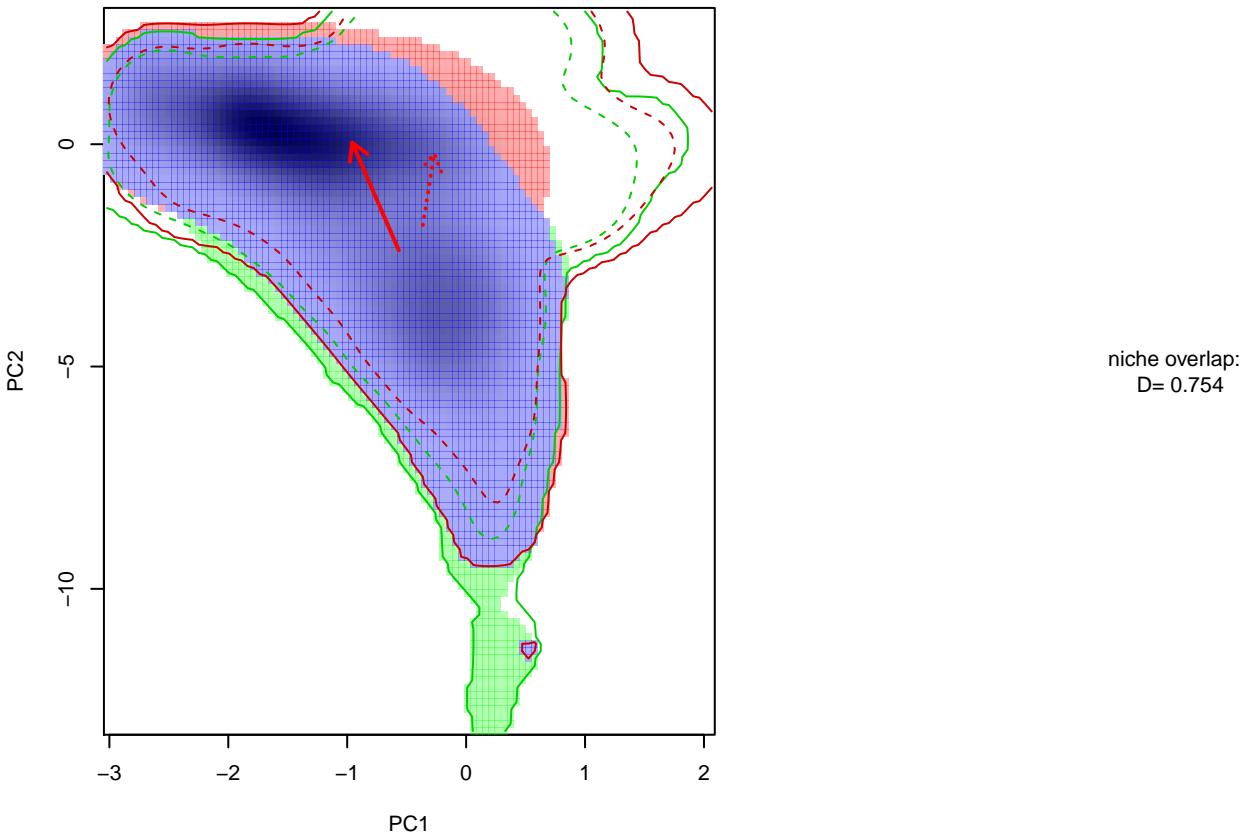
Similarity 1→2



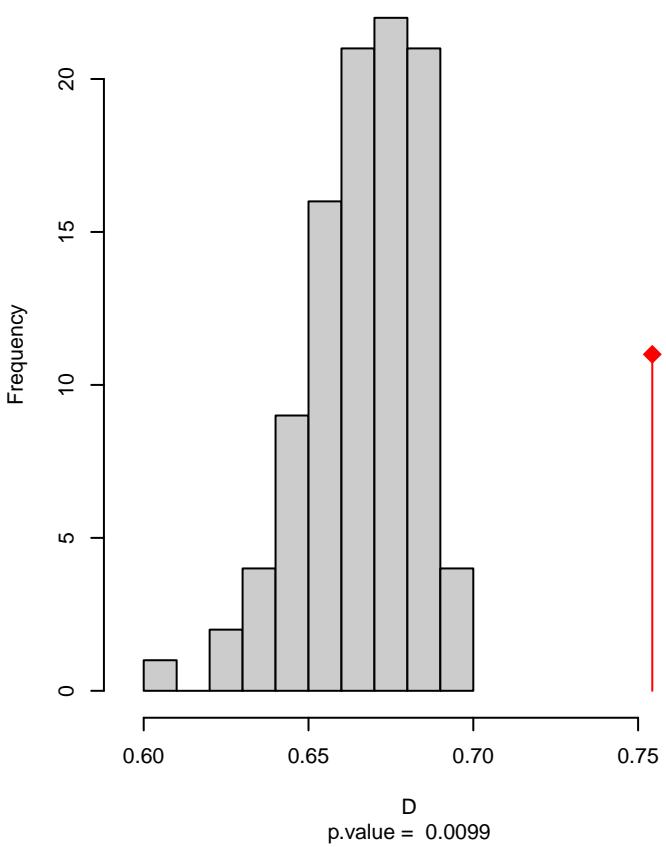
Pseudochelidon_eurystomina seasonal overlap-hypo wi



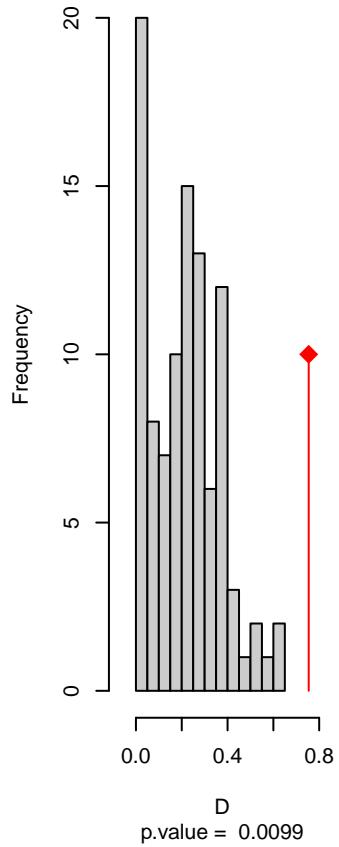
Ptyonoprogne_concolor seasonal overlap



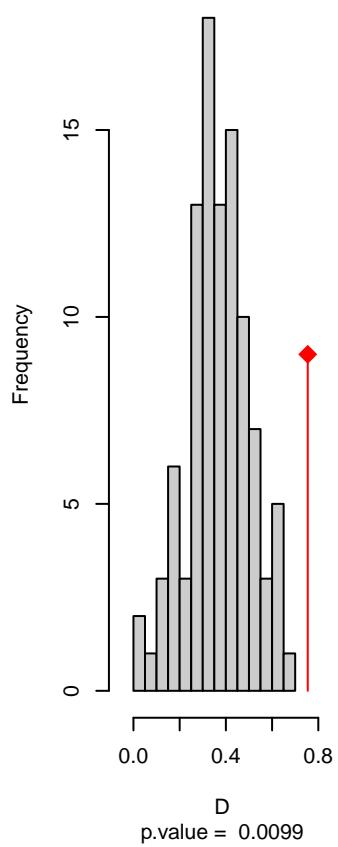
Equivalency



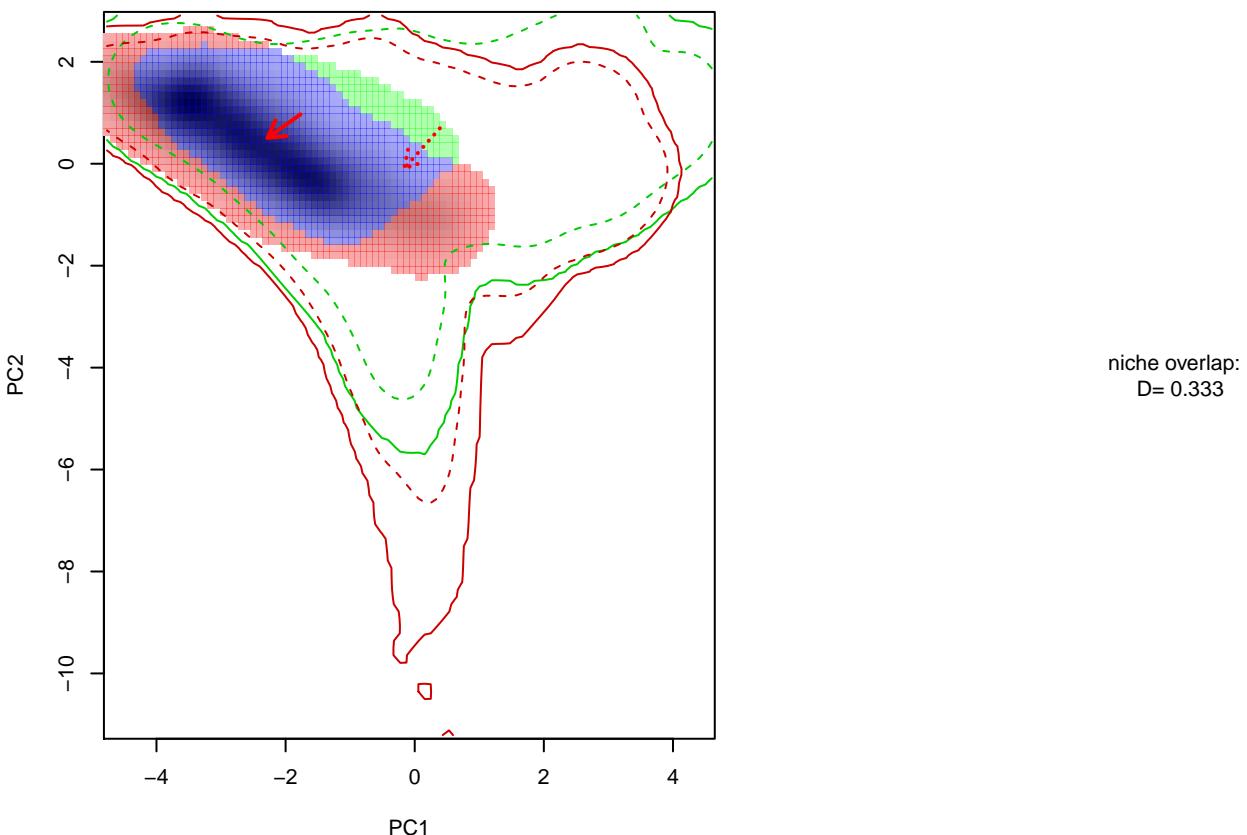
Similarity 2→1



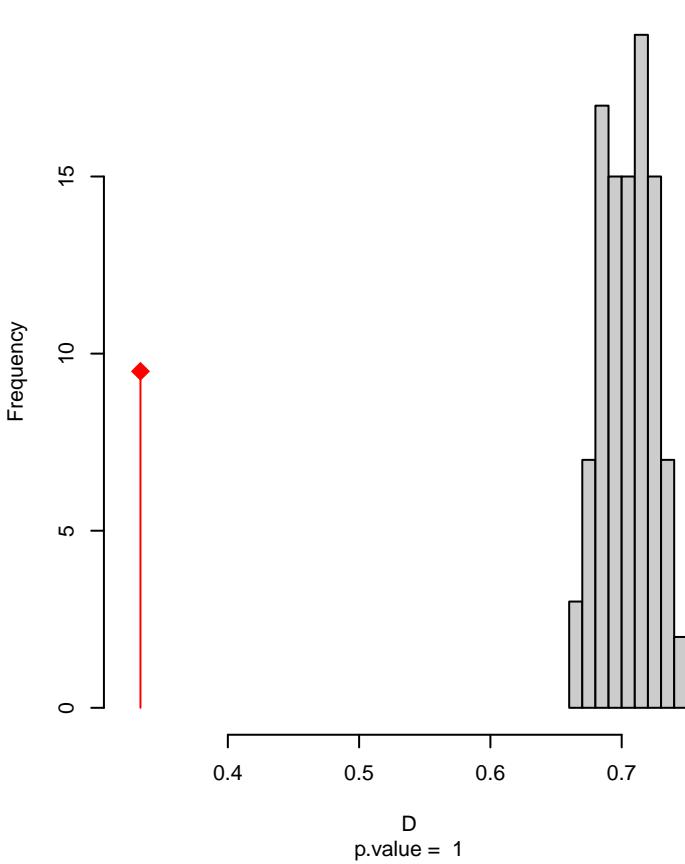
Similarity 1→2



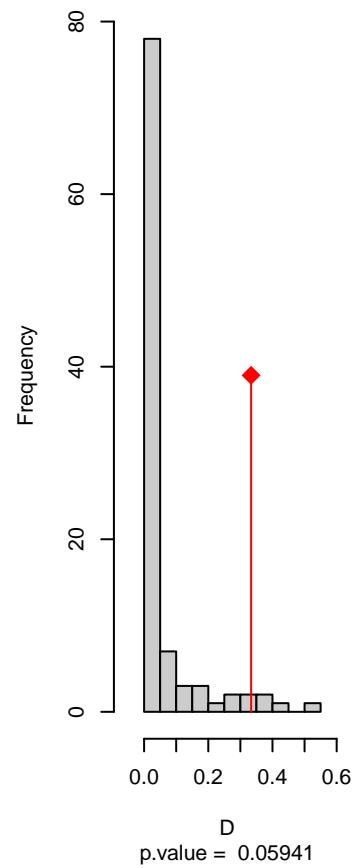
Ptyonoprogne_obsoleta seasonal overlap



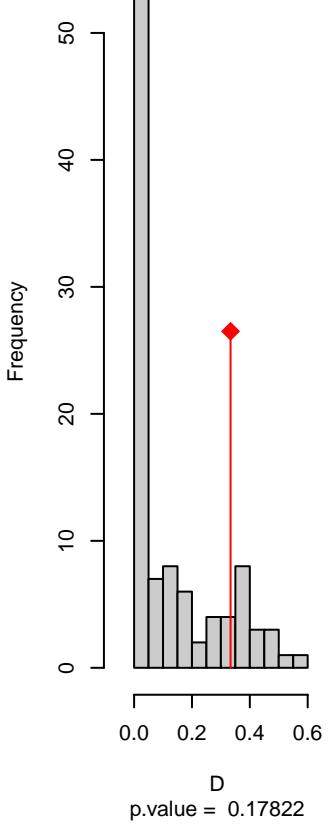
Equivalency



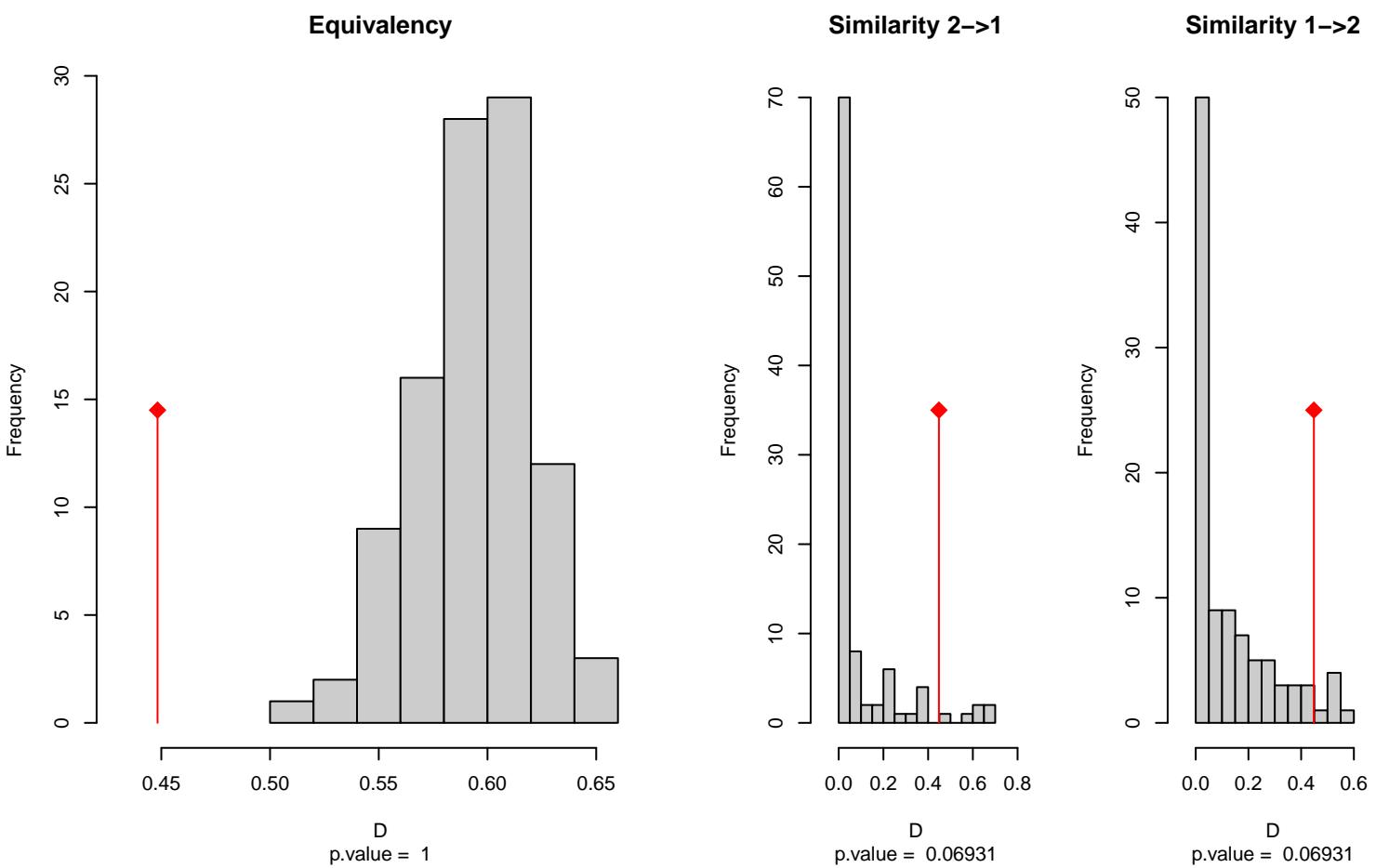
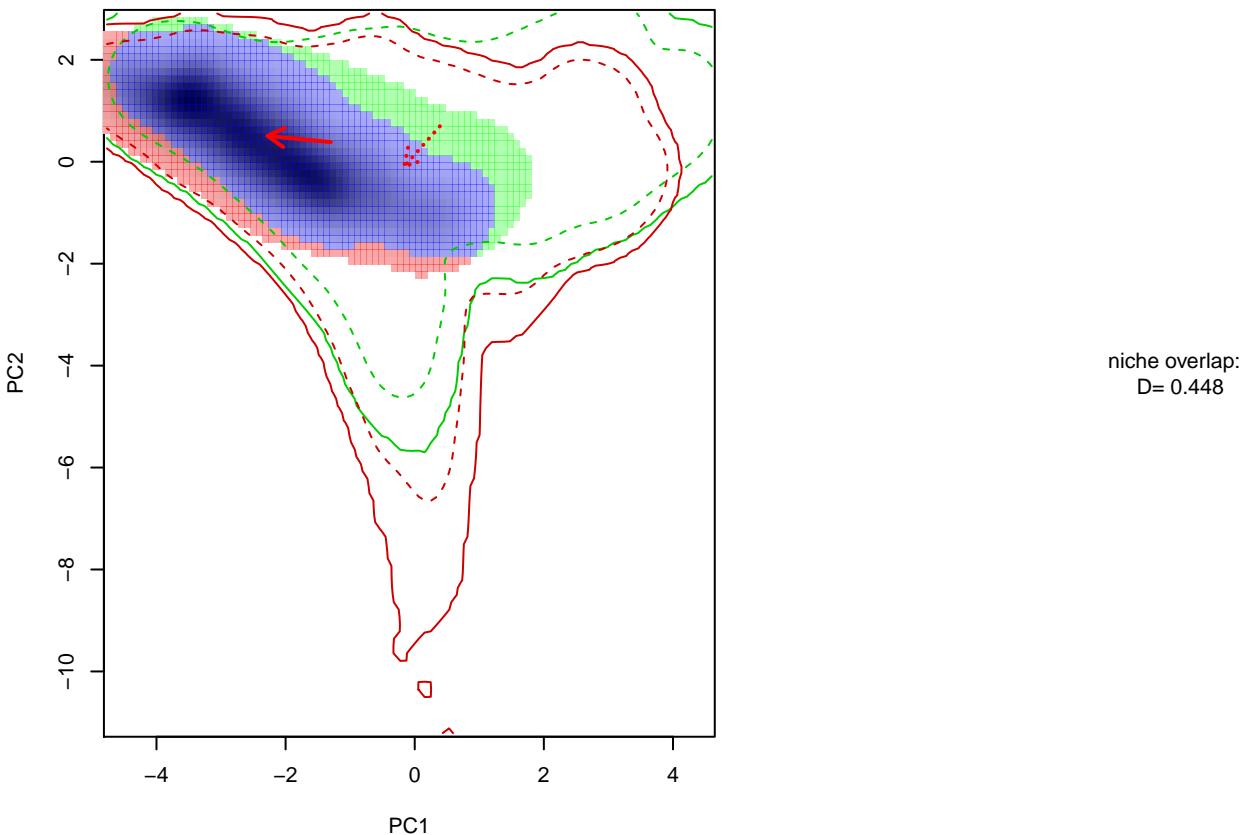
Similarity 2→1



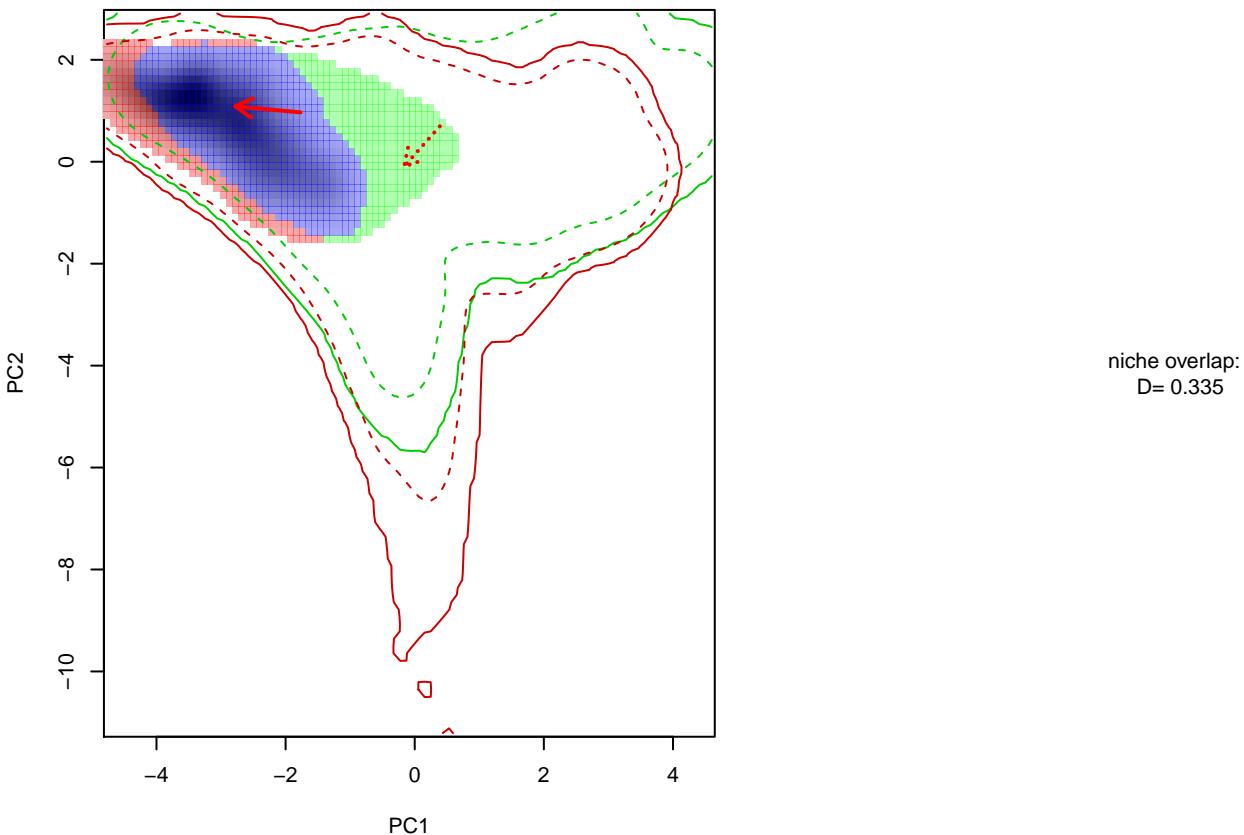
Similarity 1→2



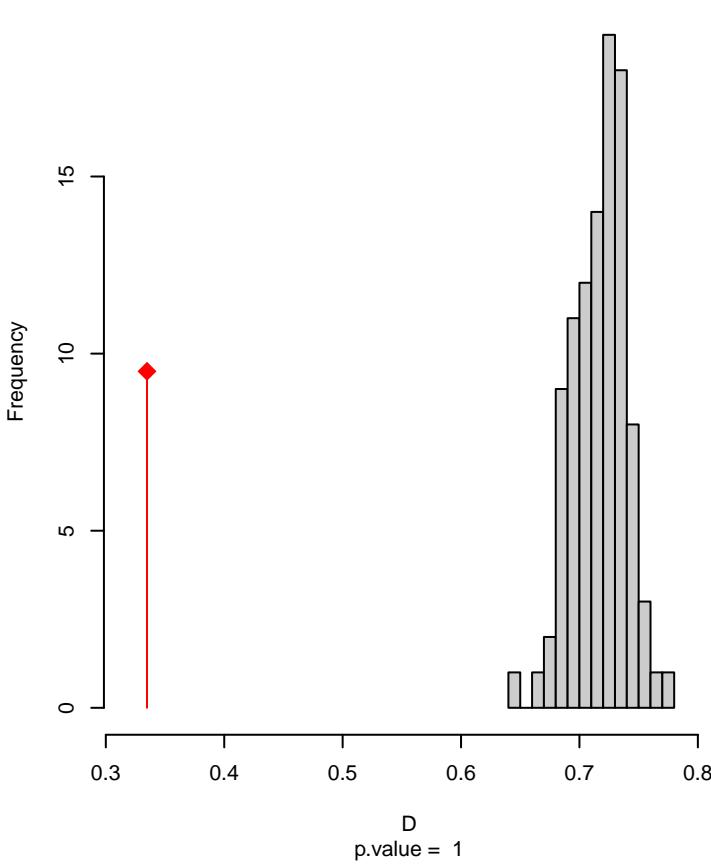
Ptyonoprogne_obsoleta seasonal overlap-hypo.br



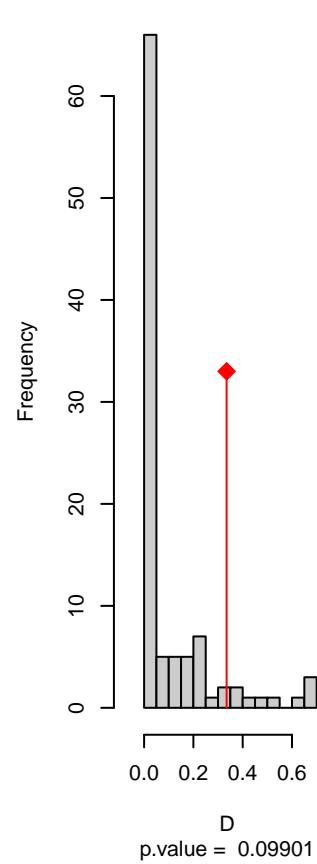
Ptyonoprogne_obsoleta seasonal overlap-hypo wi



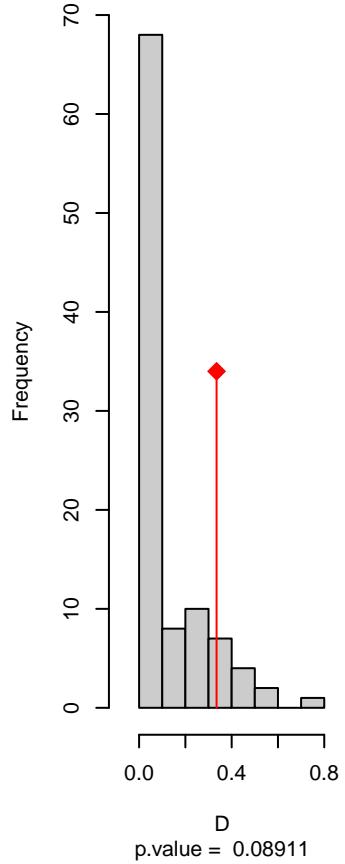
Equivalency



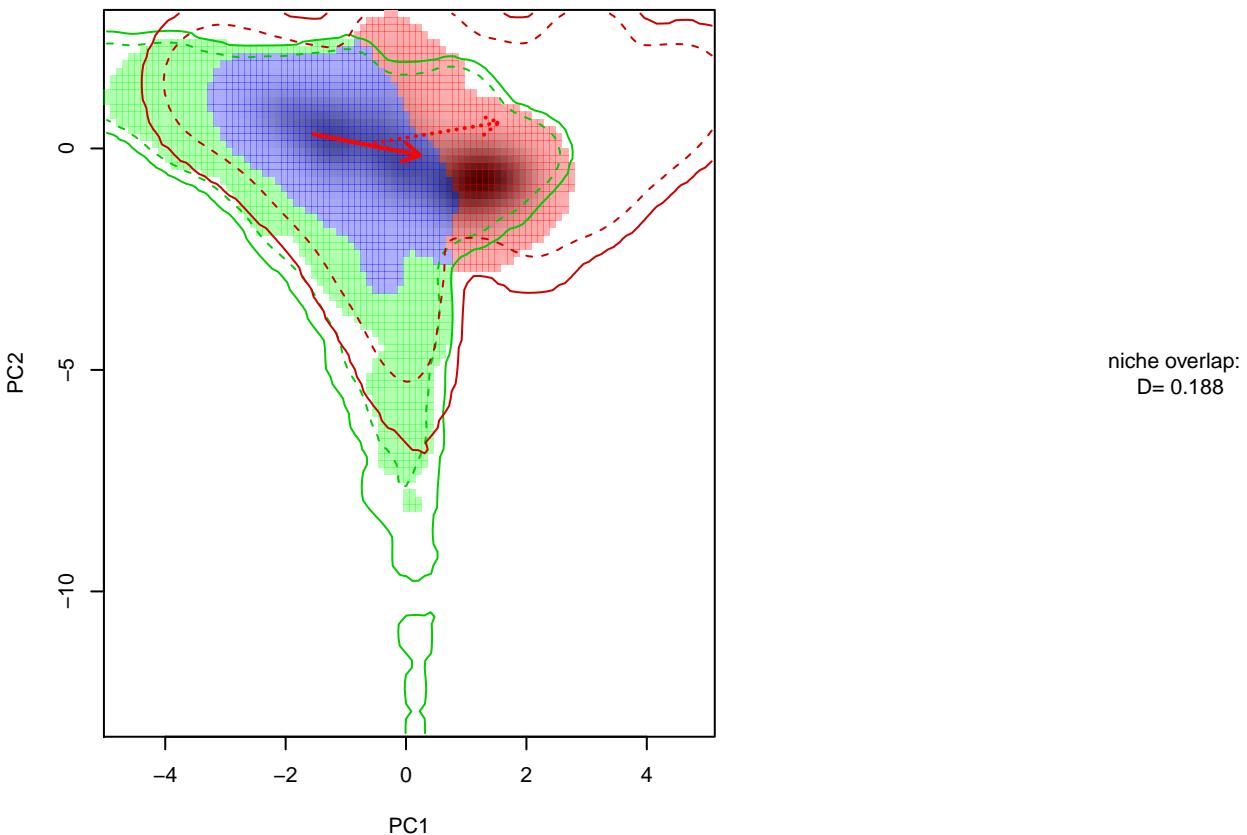
Similarity 2→1



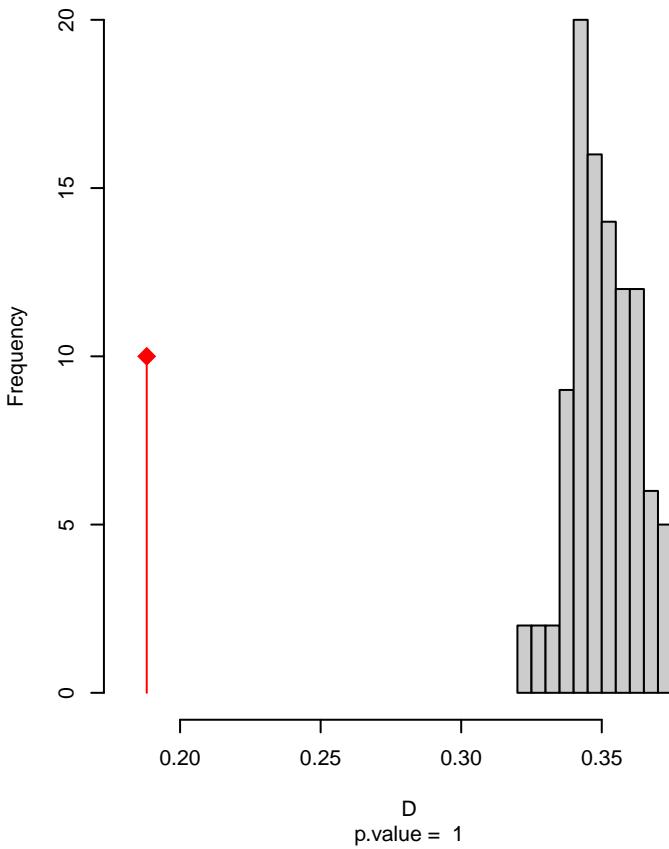
Similarity 1→2



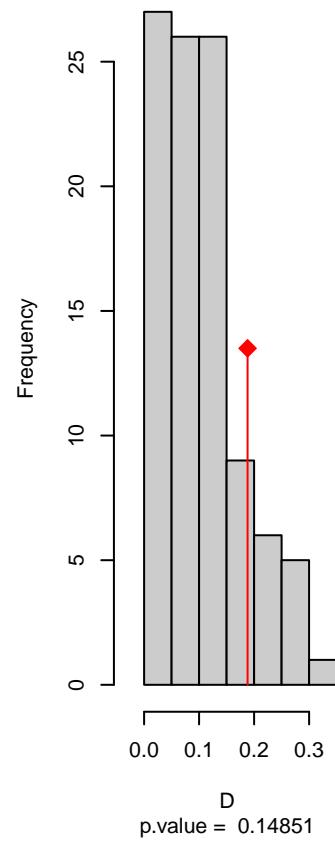
Ptyonoprogne_rupestris seasonal overlap



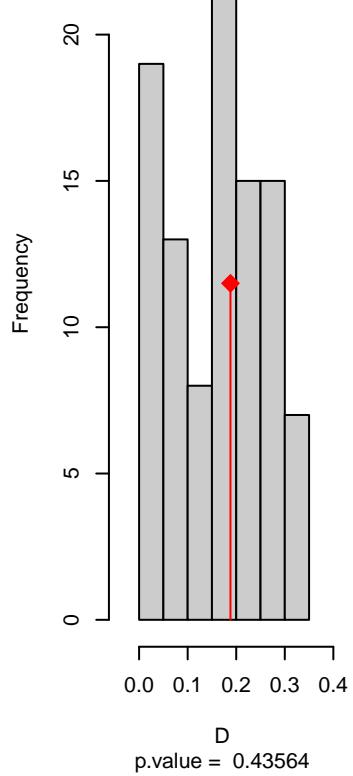
Equivalency



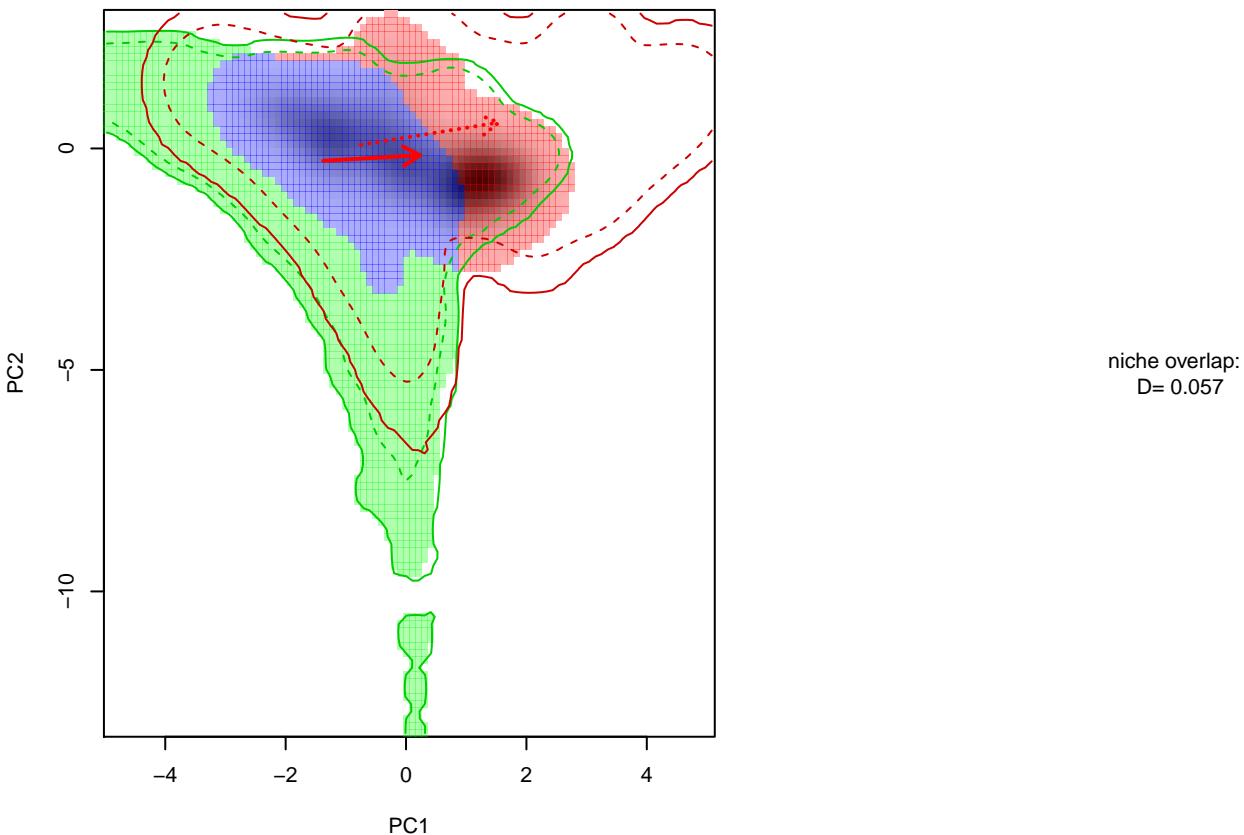
Similarity 2→1



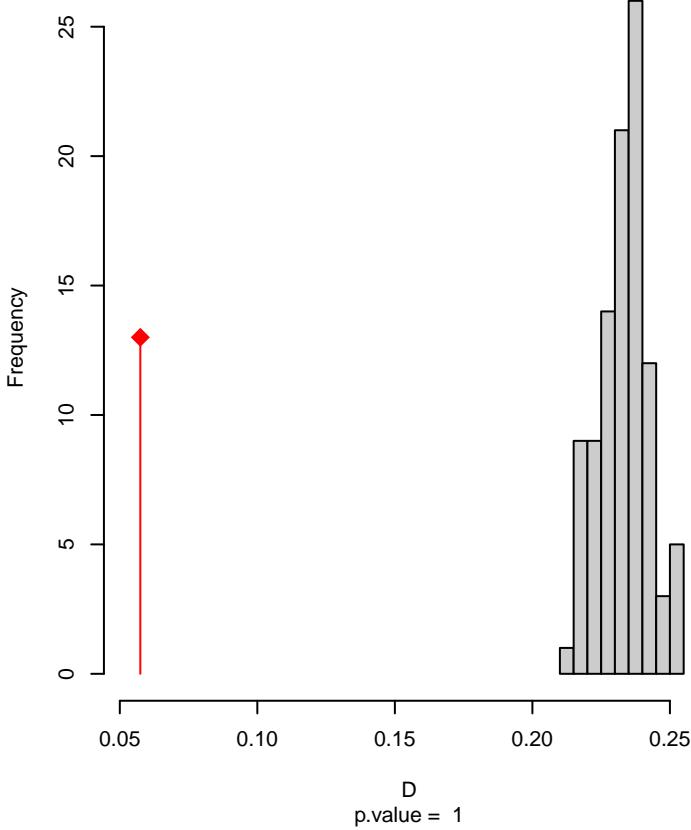
Similarity 1→2



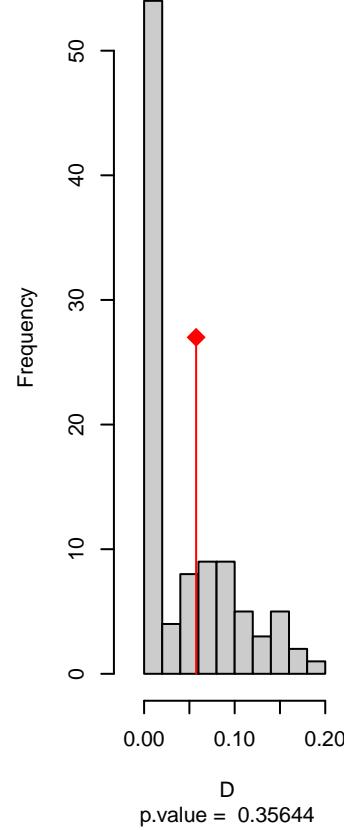
Ptyonoprogne_rupestris seasonal overlap-hypo.br



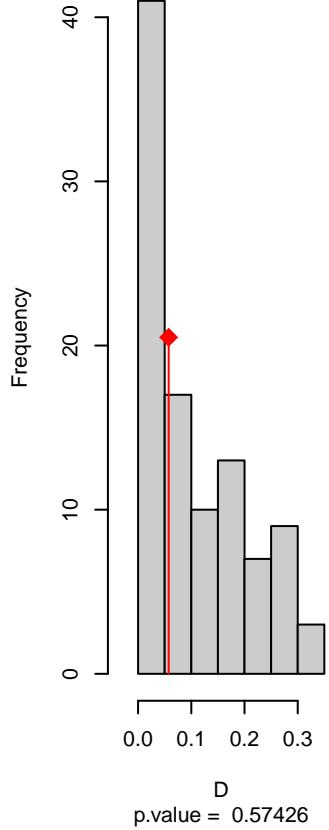
Equivalency



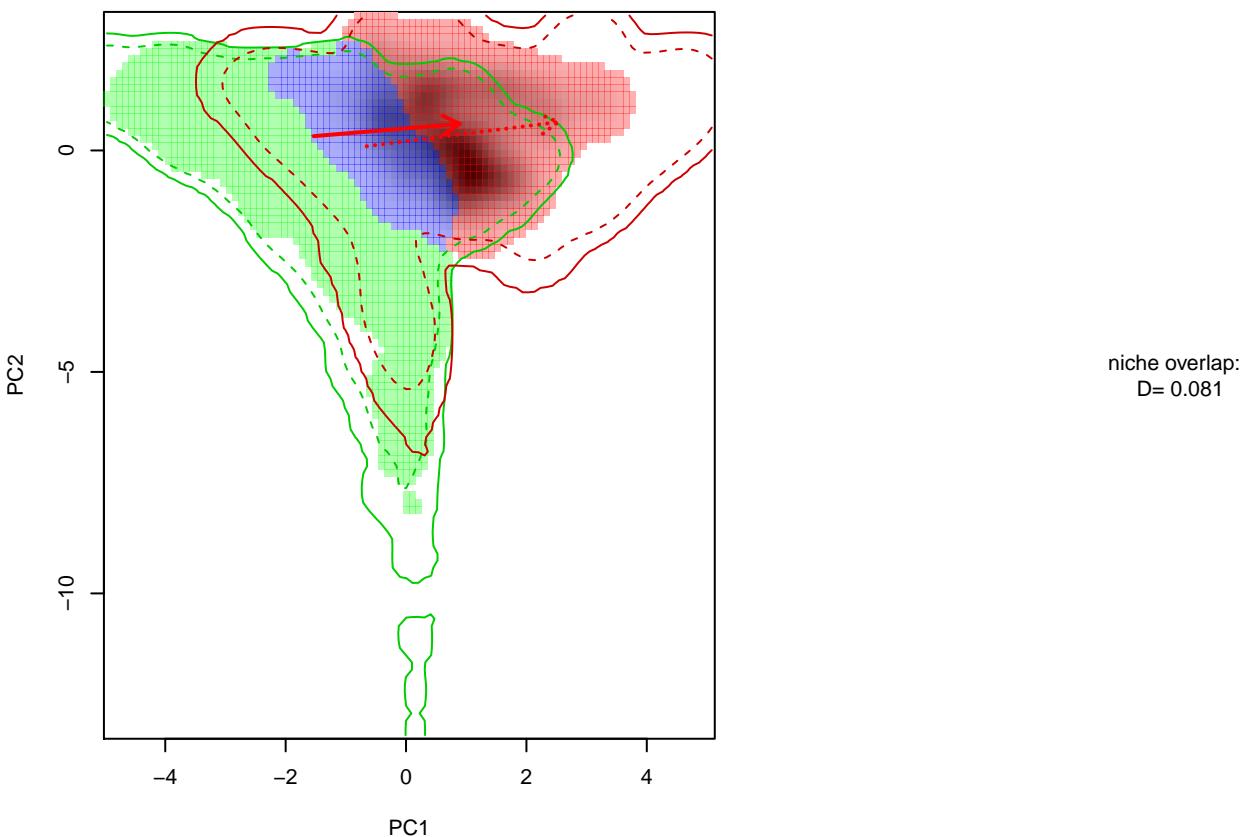
Similarity 2→1



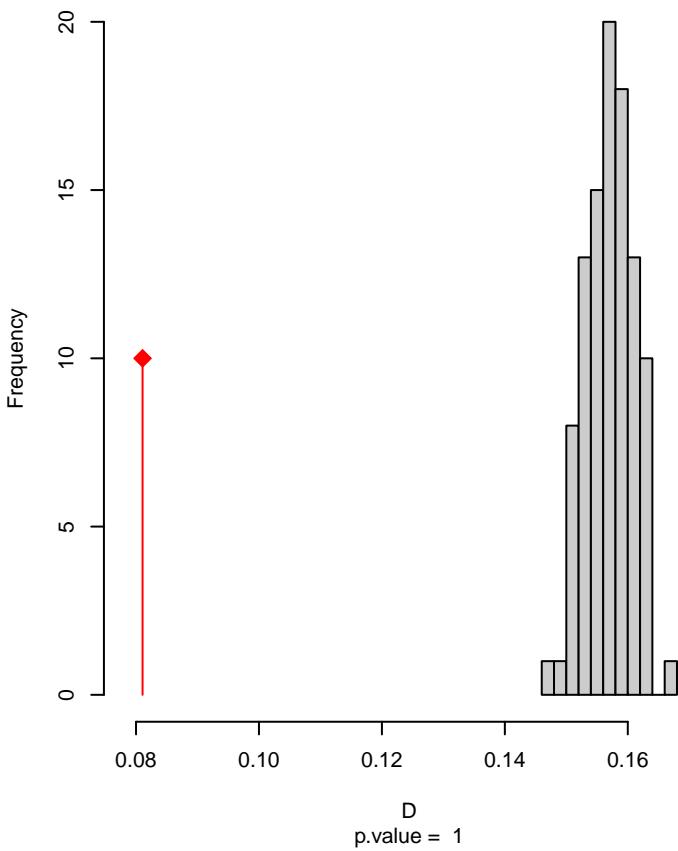
Similarity 1→2



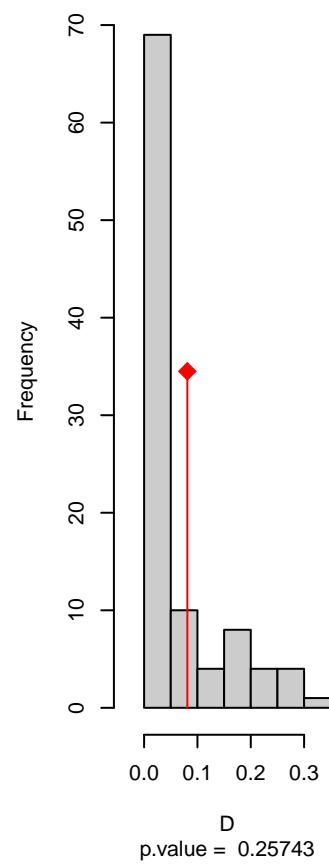
Ptyonoprogne_rupestris seasonal overlap-hypo wi



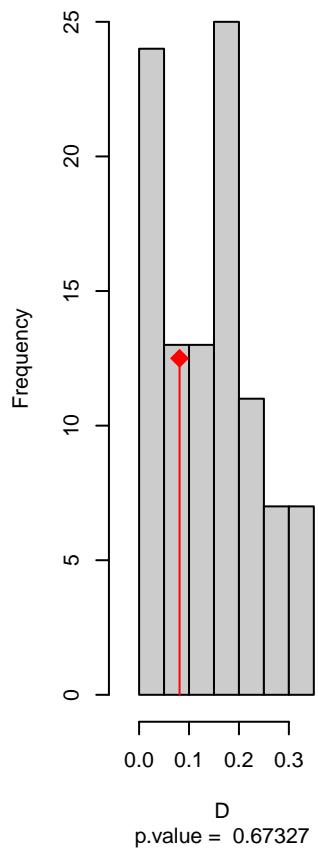
Equivalency



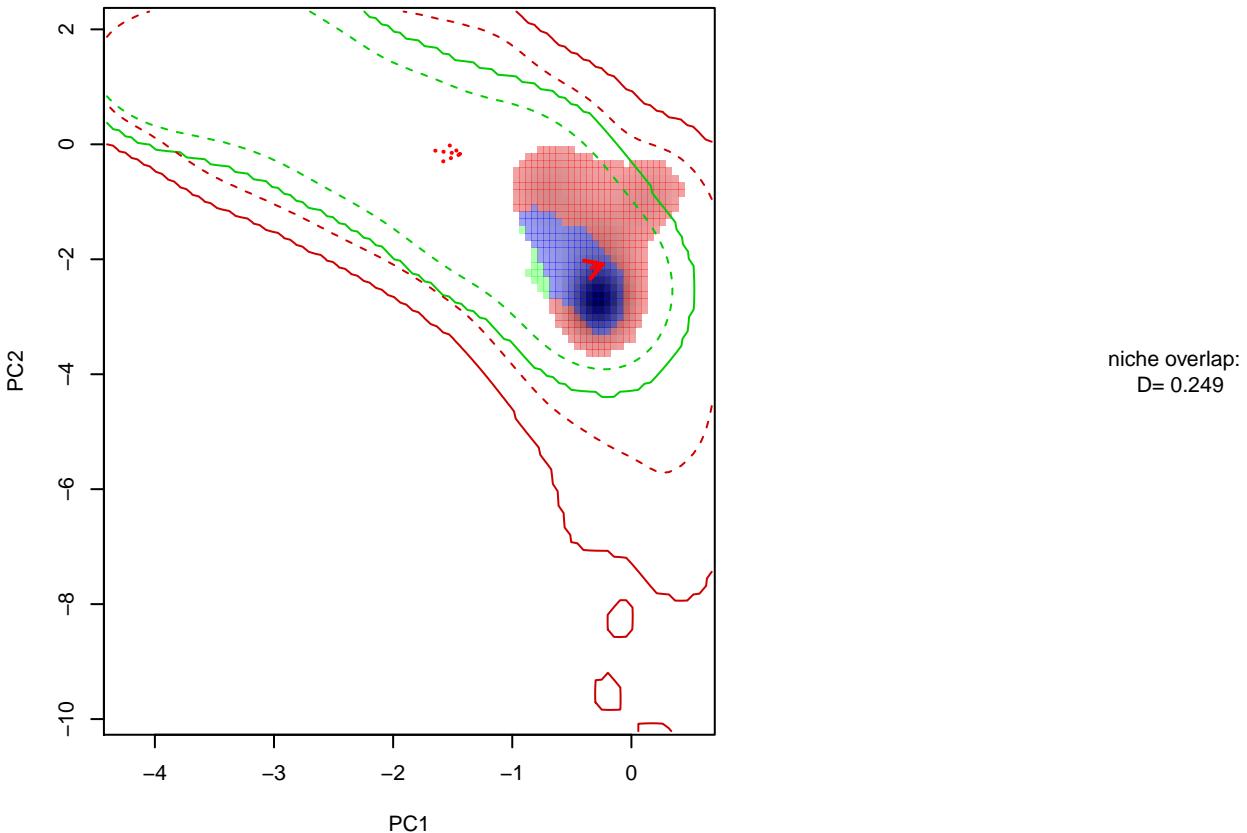
Similarity 2→1



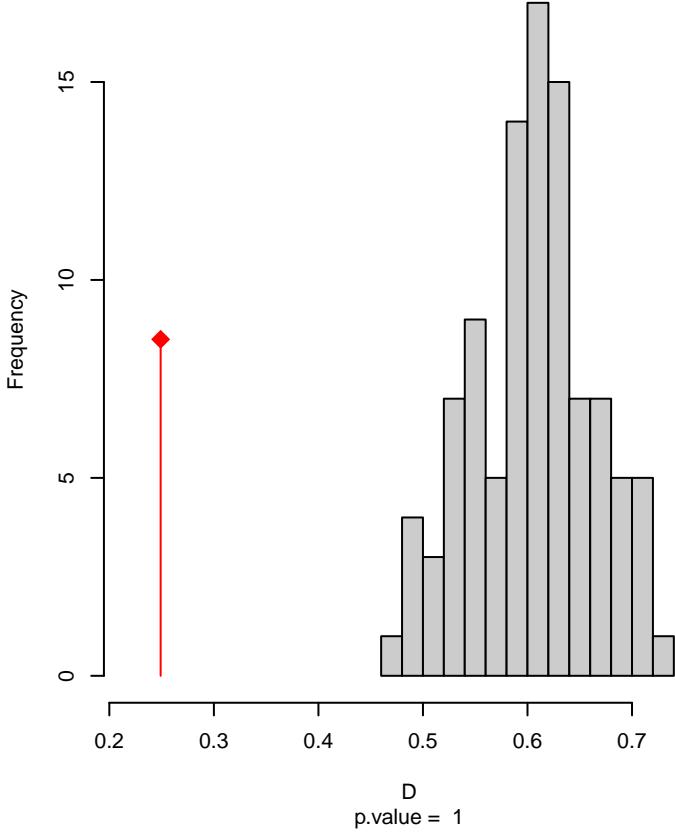
Similarity 1→2



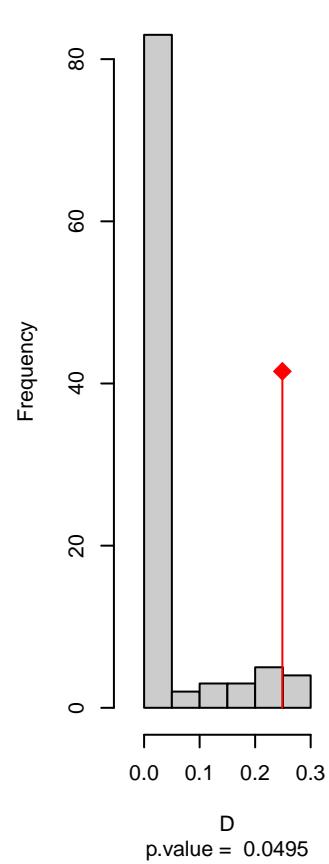
Riparia_congica seasonal overlap



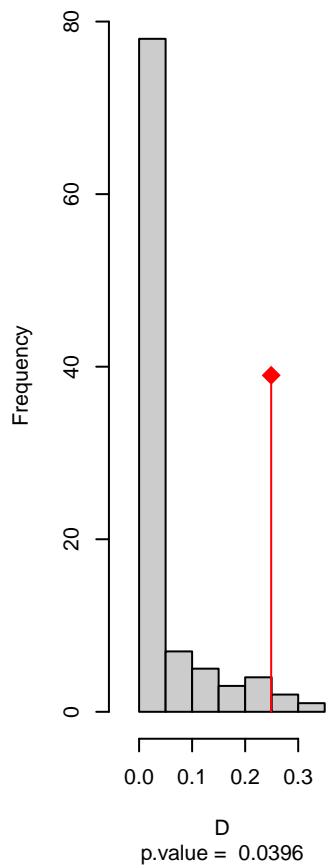
Equivalency



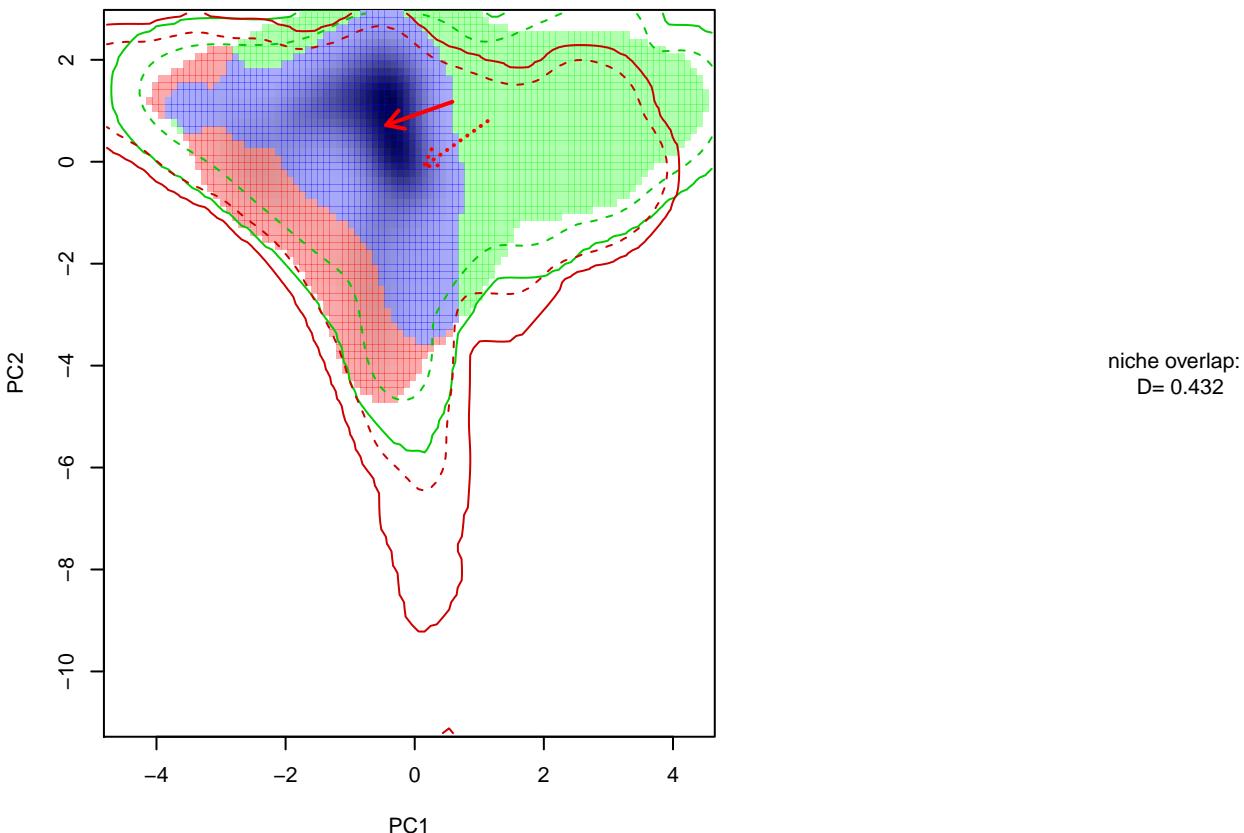
Similarity 2→1



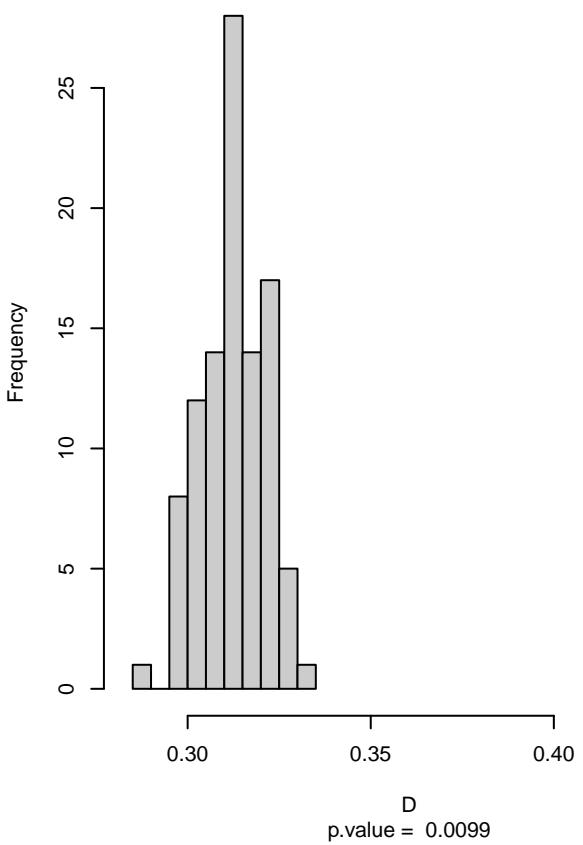
Similarity 1→2



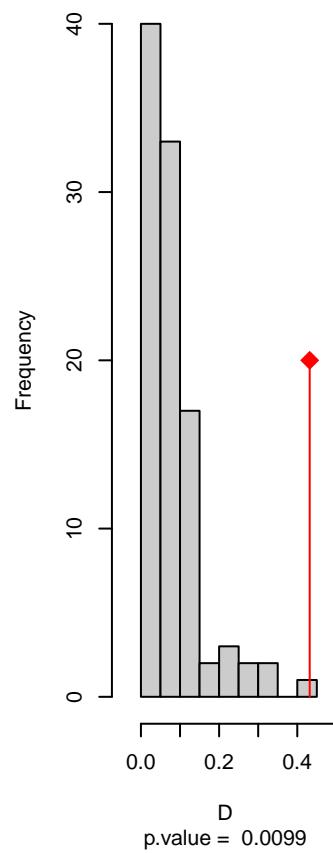
Riparia_diluta seasonal overlap



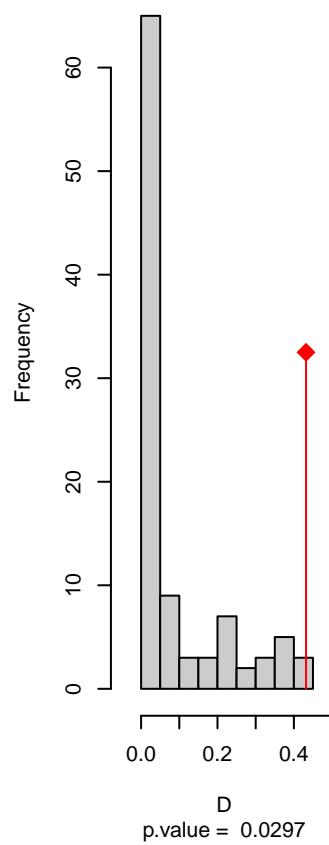
Equivalency



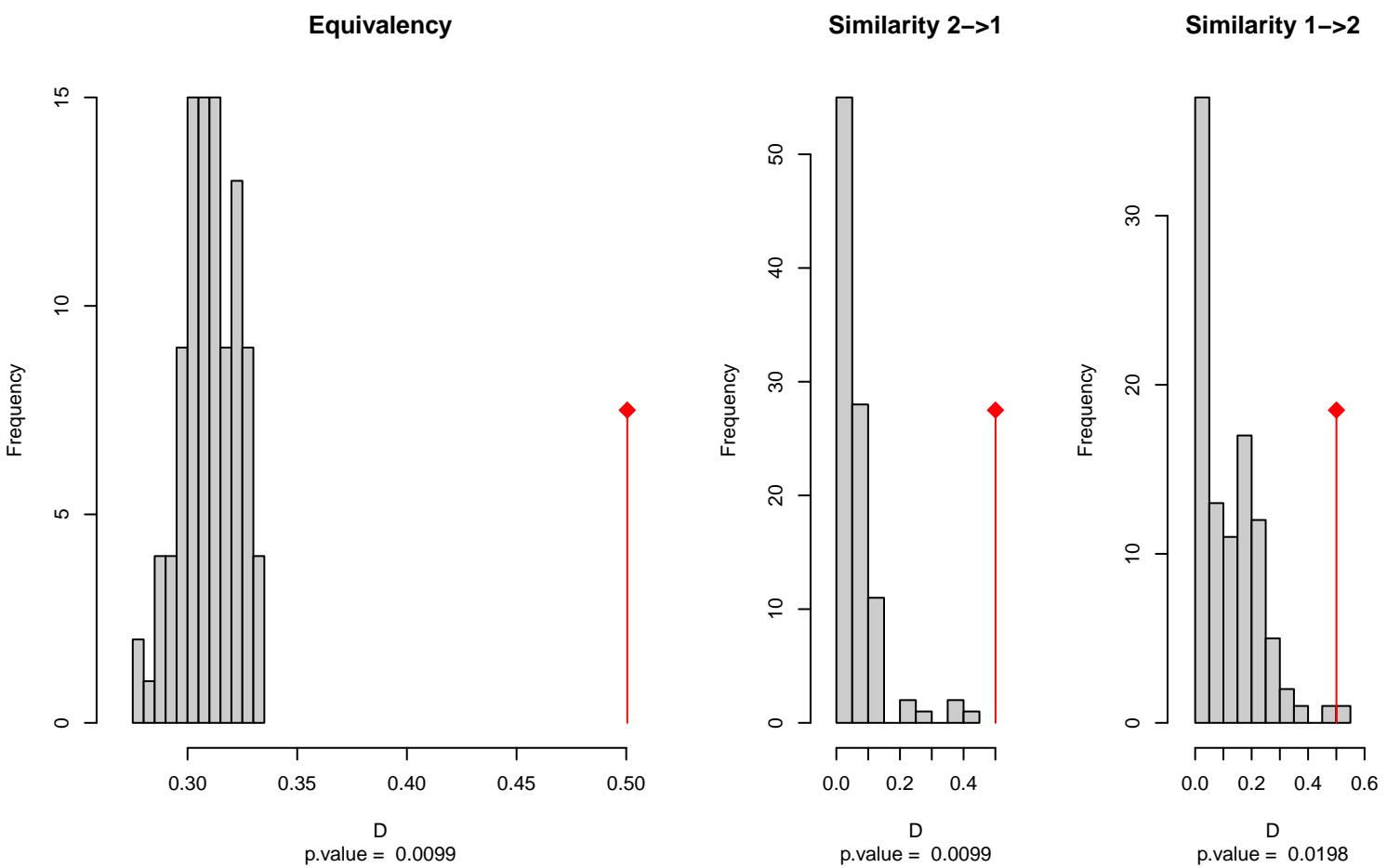
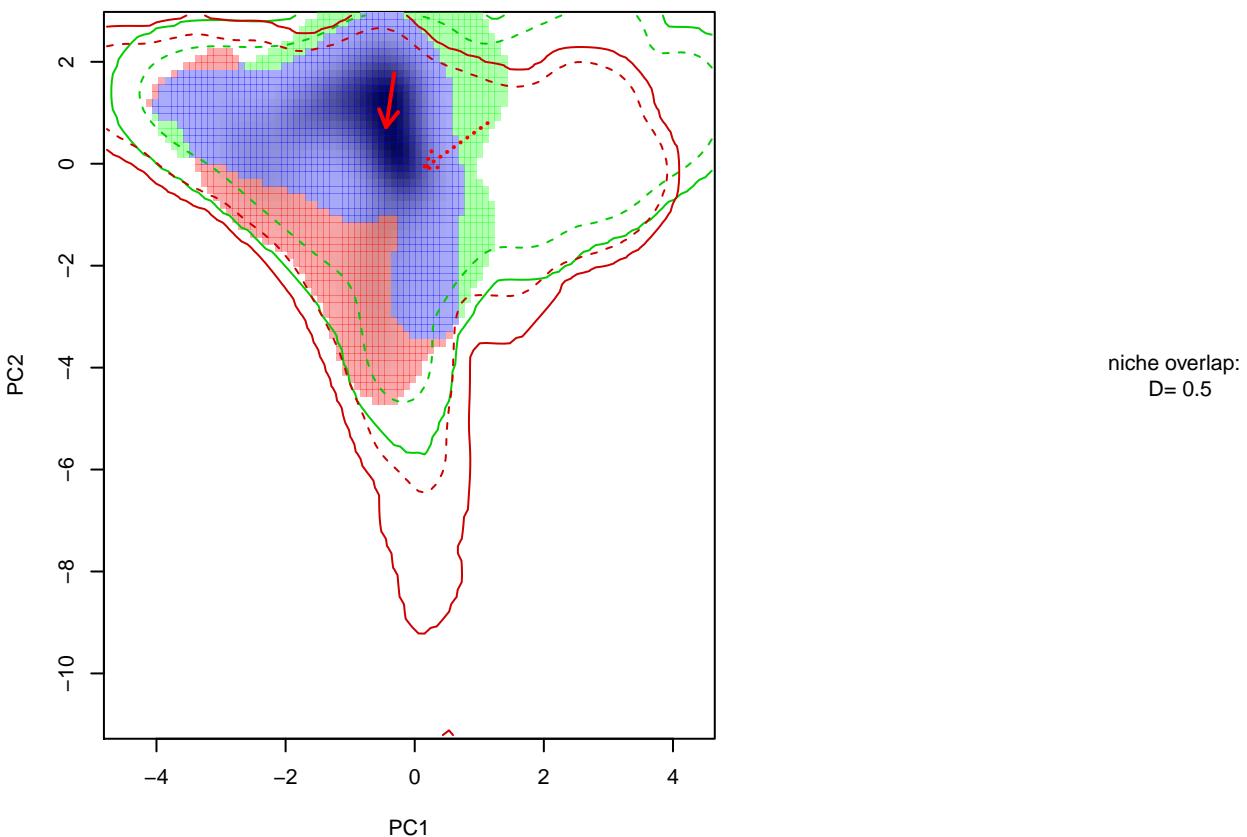
Similarity 2→1



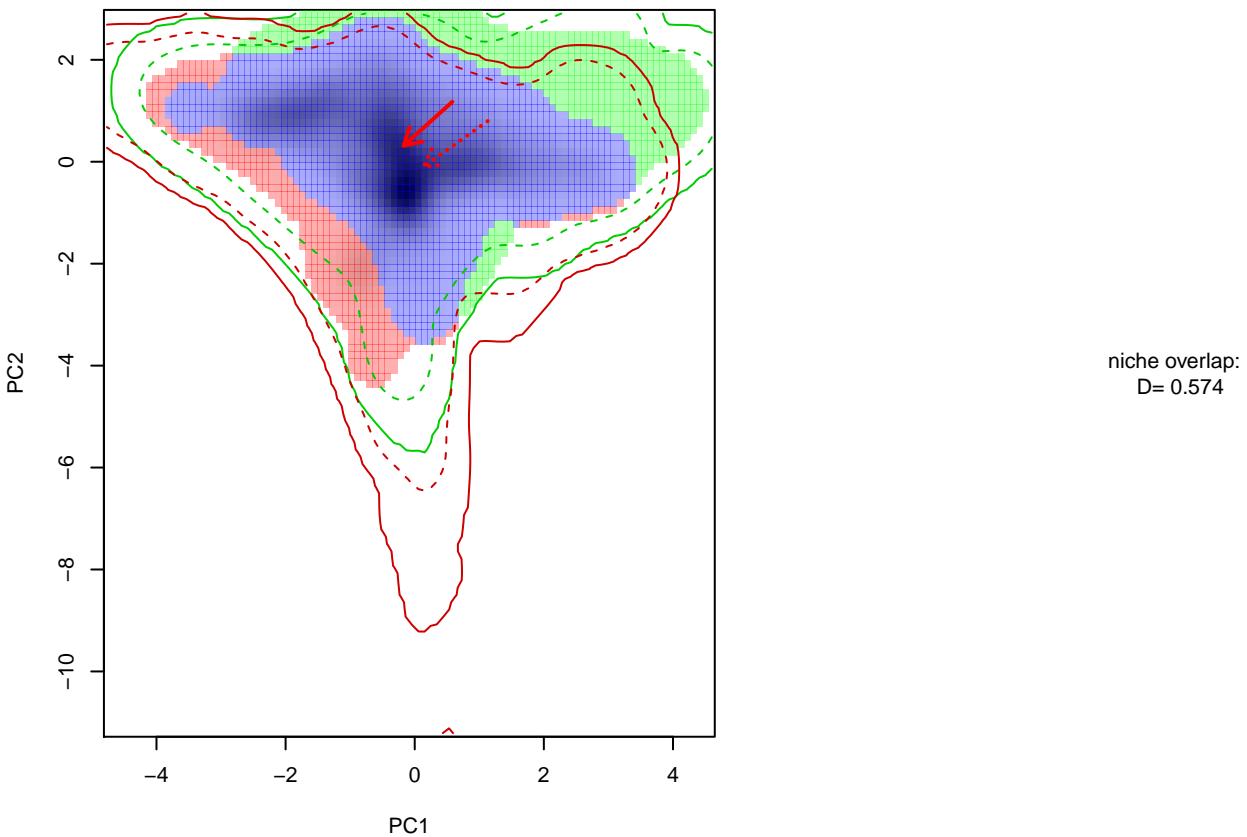
Similarity 1→2



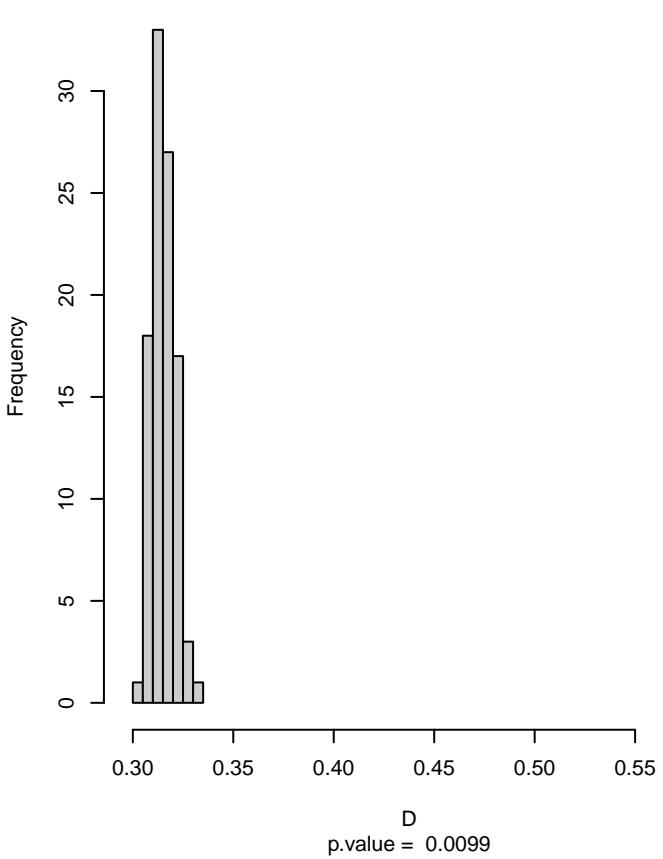
Riparia_diluta seasonal overlap–hypo.br



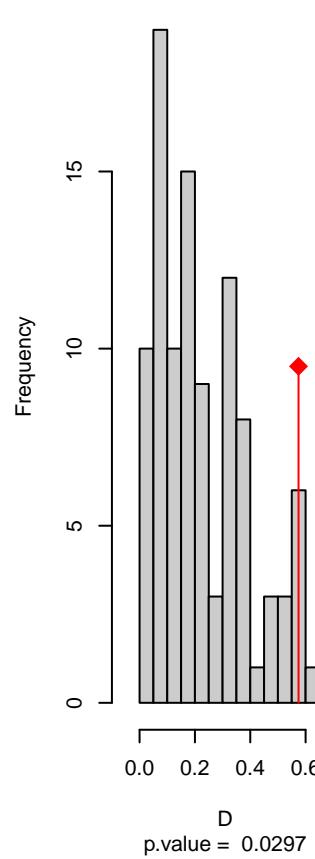
Riparia_diluta seasonal overlap–hypo wi



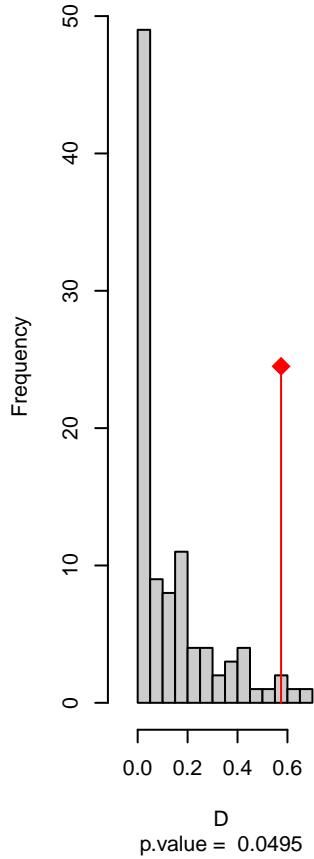
Equivalency



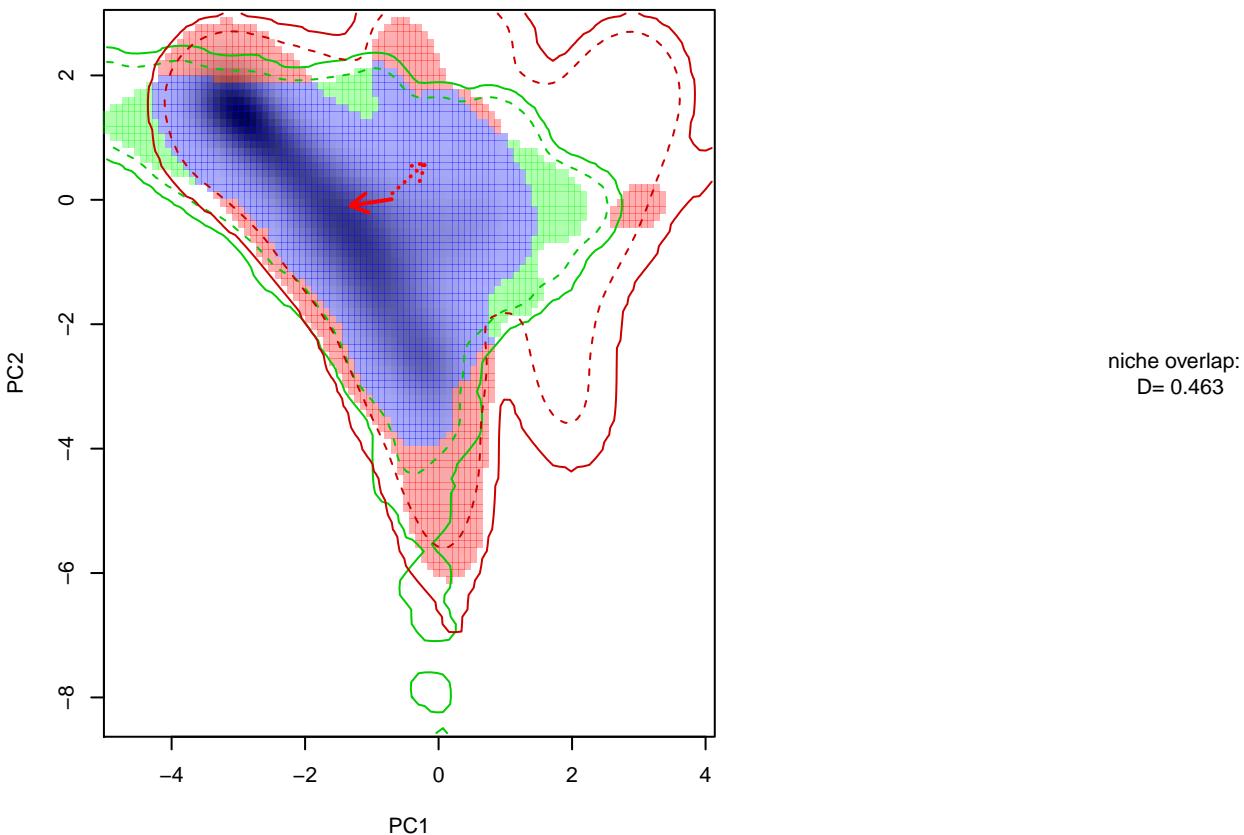
Similarity 2→1



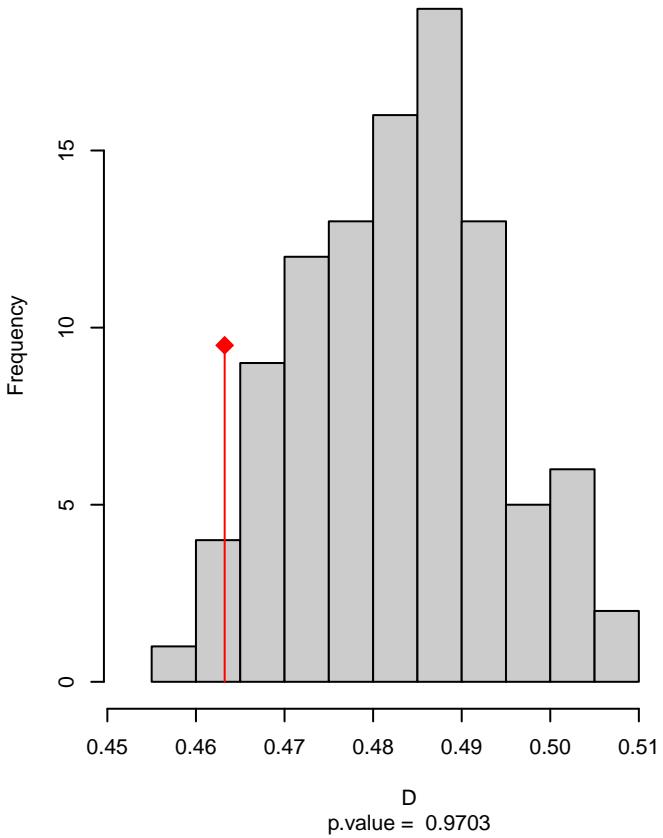
Similarity 1→2



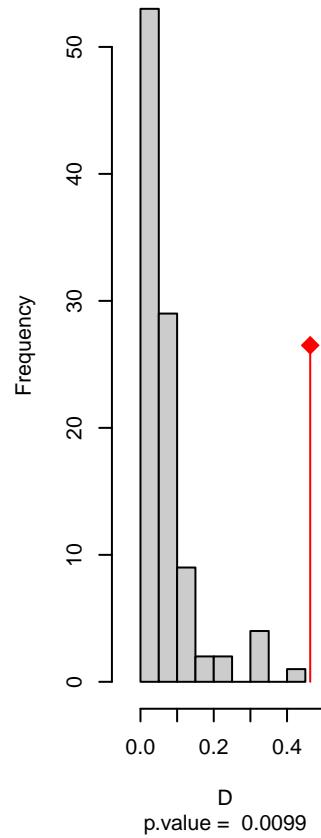
Riparia_riparia seasonal overlap



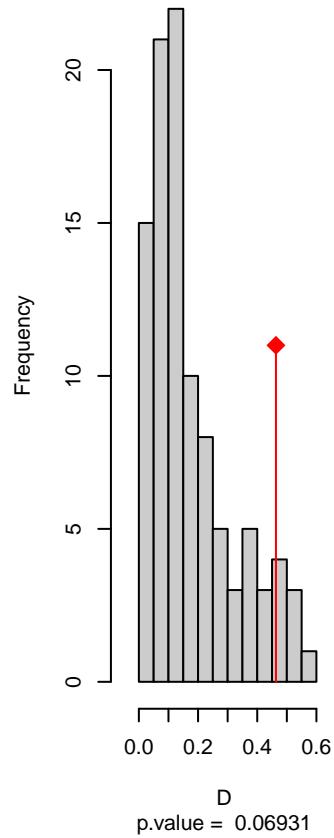
Equivalency



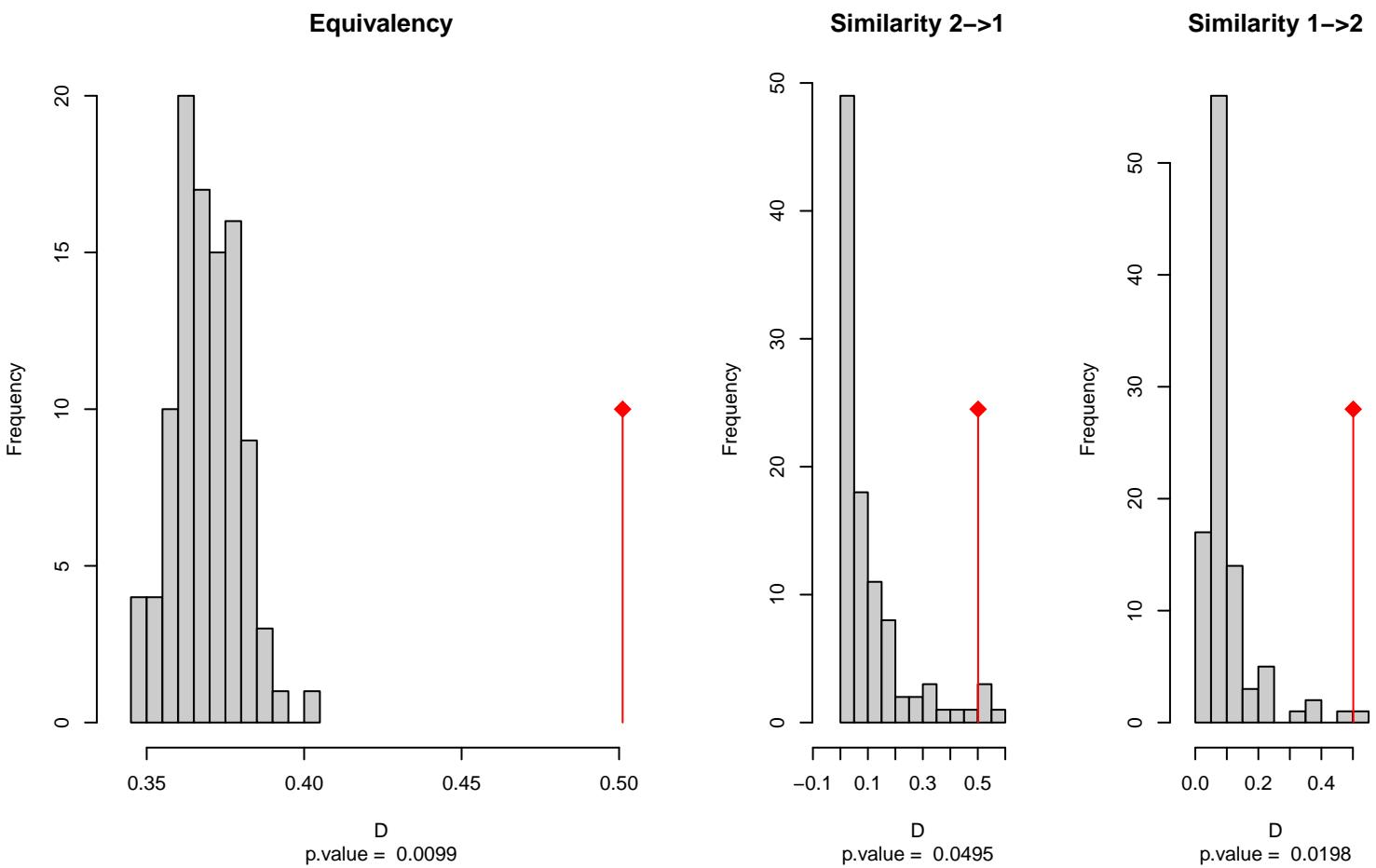
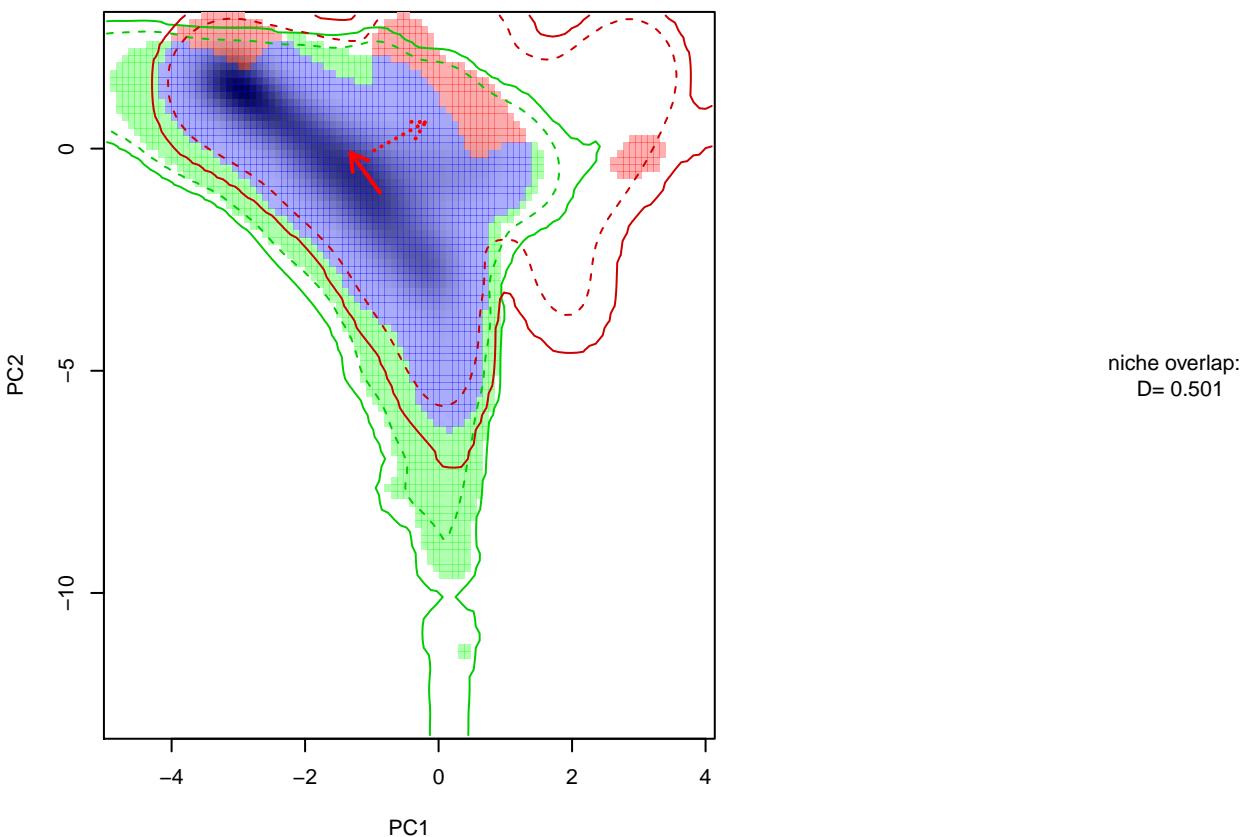
Similarity 2->1



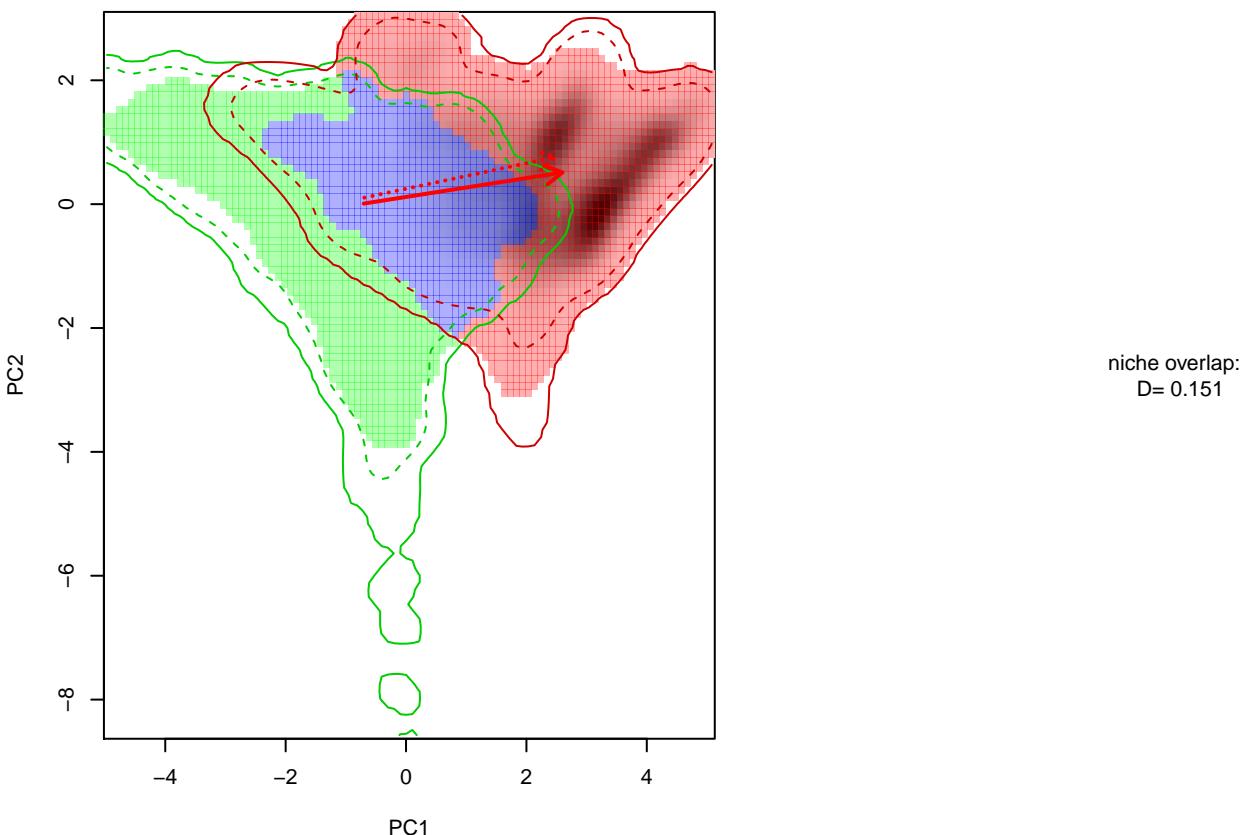
Similarity 1->2



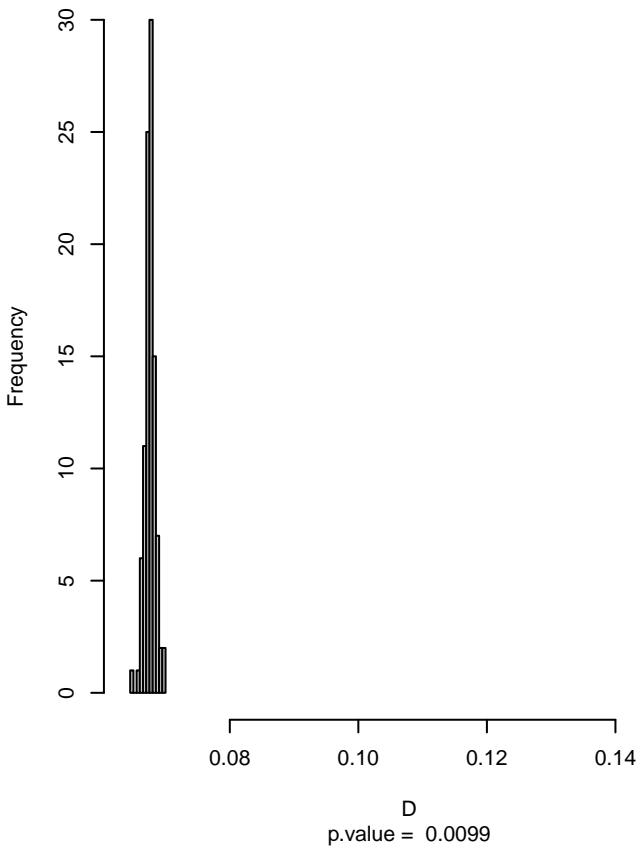
Riparia_riparia seasonal overlap-hypo.br



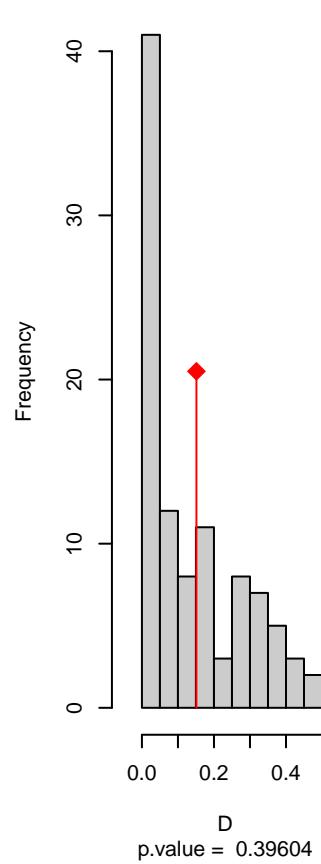
Riparia_riparia seasonal overlap–hypo wi



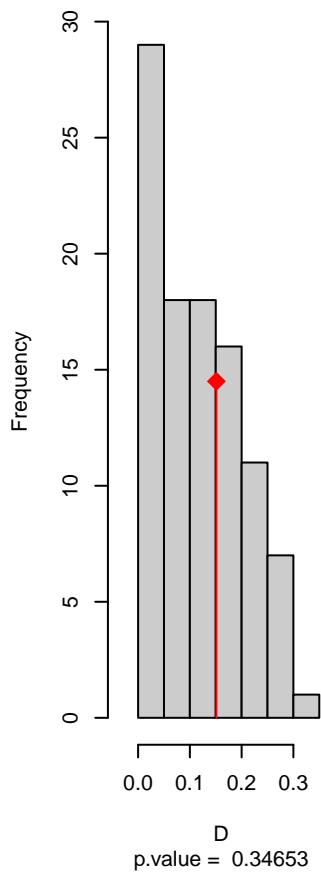
Equivalency



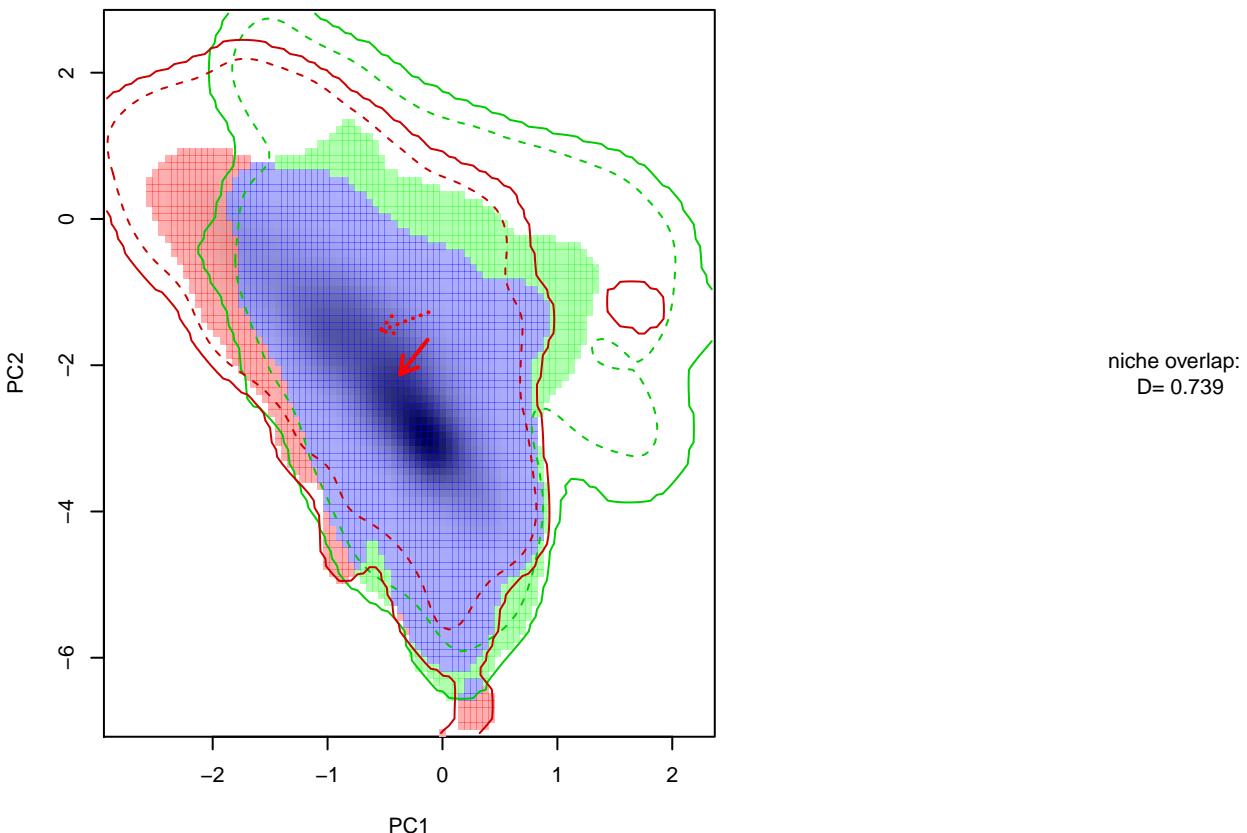
Similarity 2→1



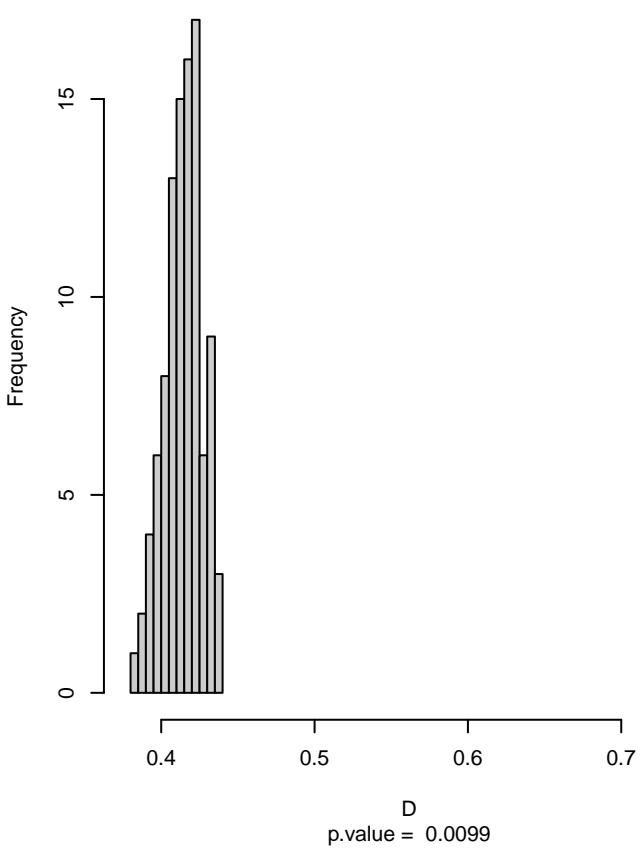
Similarity 1→2



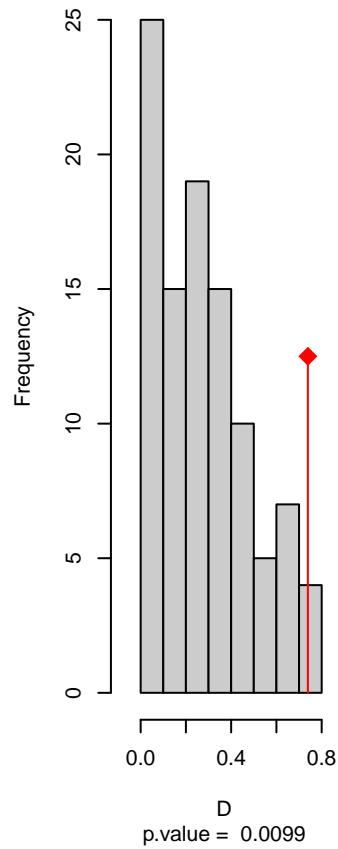
Stelgidopteryx_ruficollis seasonal overlap



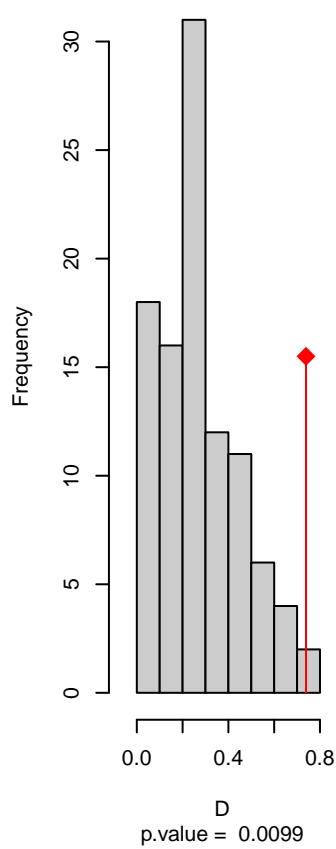
Equivalency



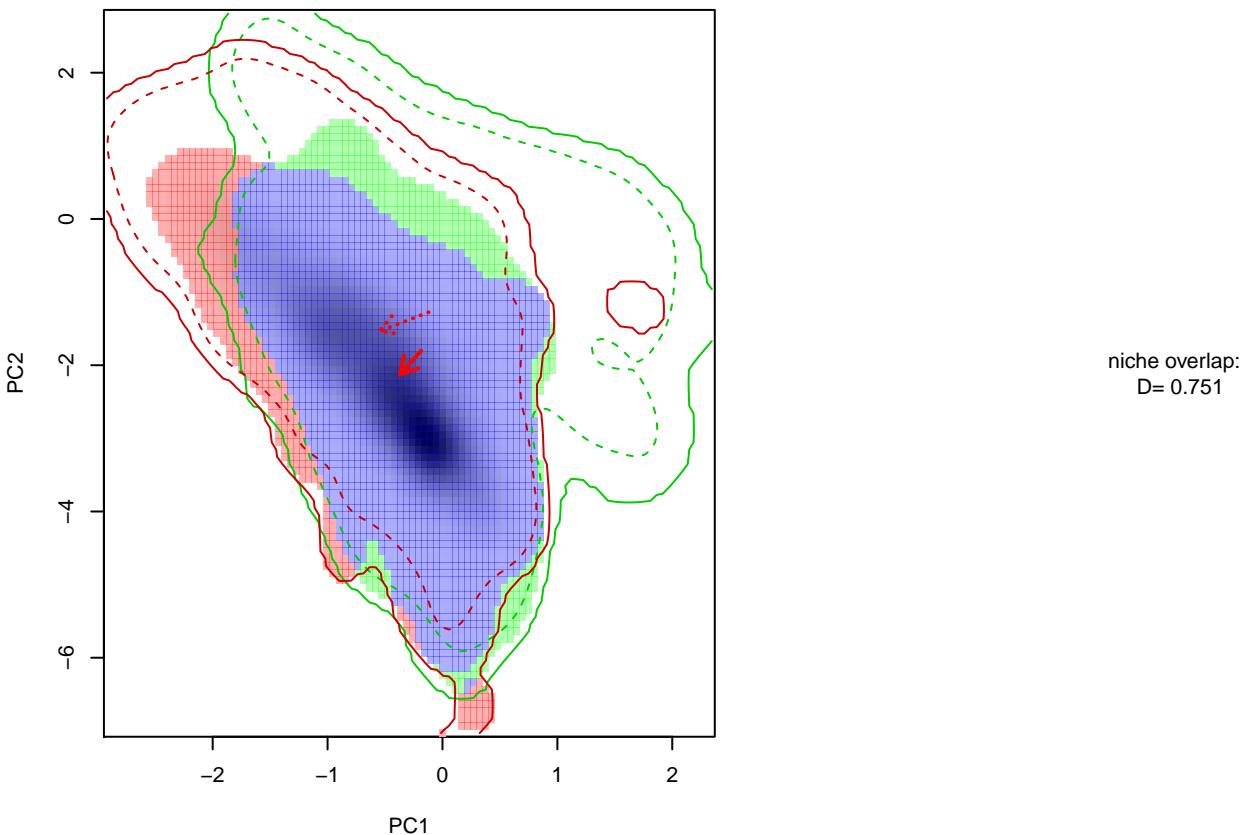
Similarity 2→1



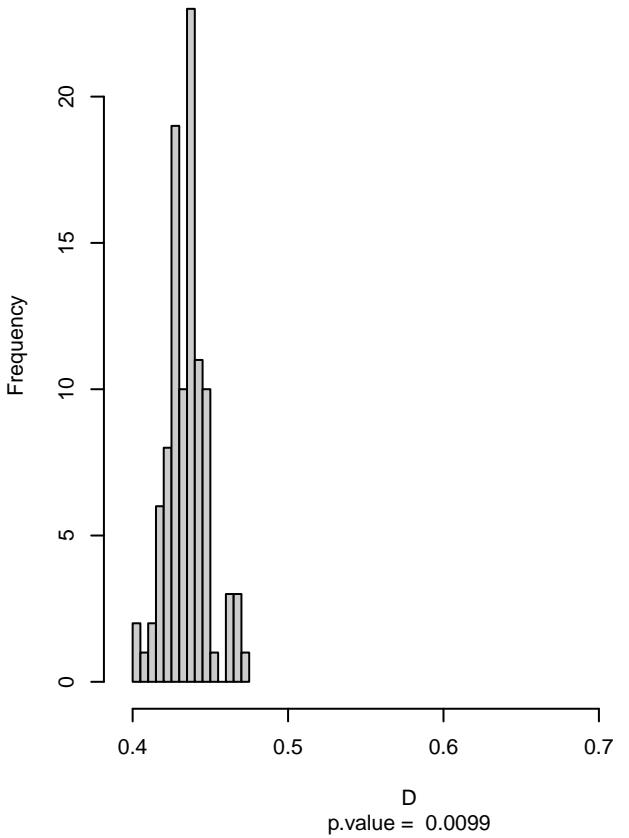
Similarity 1→2



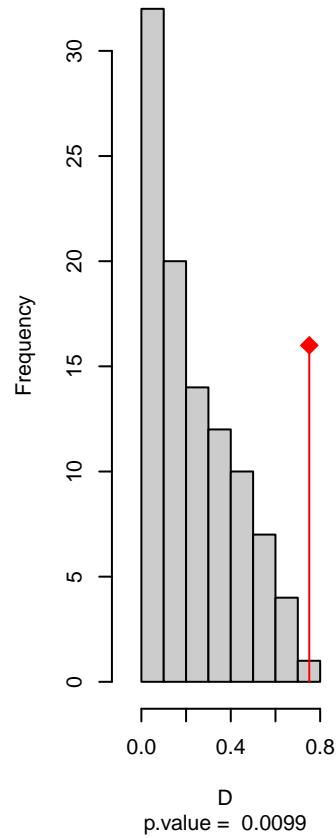
Stelgidopteryx ruficollis seasonal overlap-hypo.br



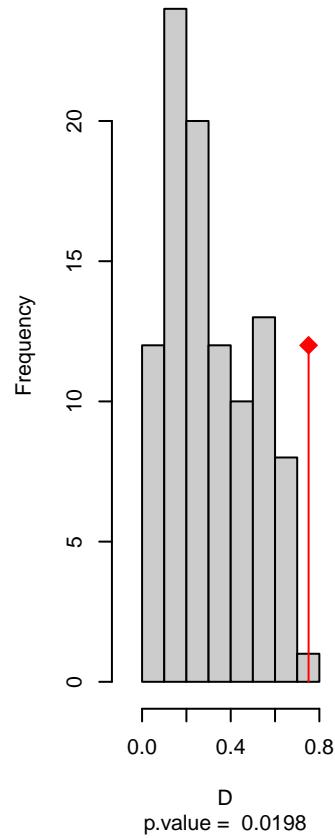
Equivalency



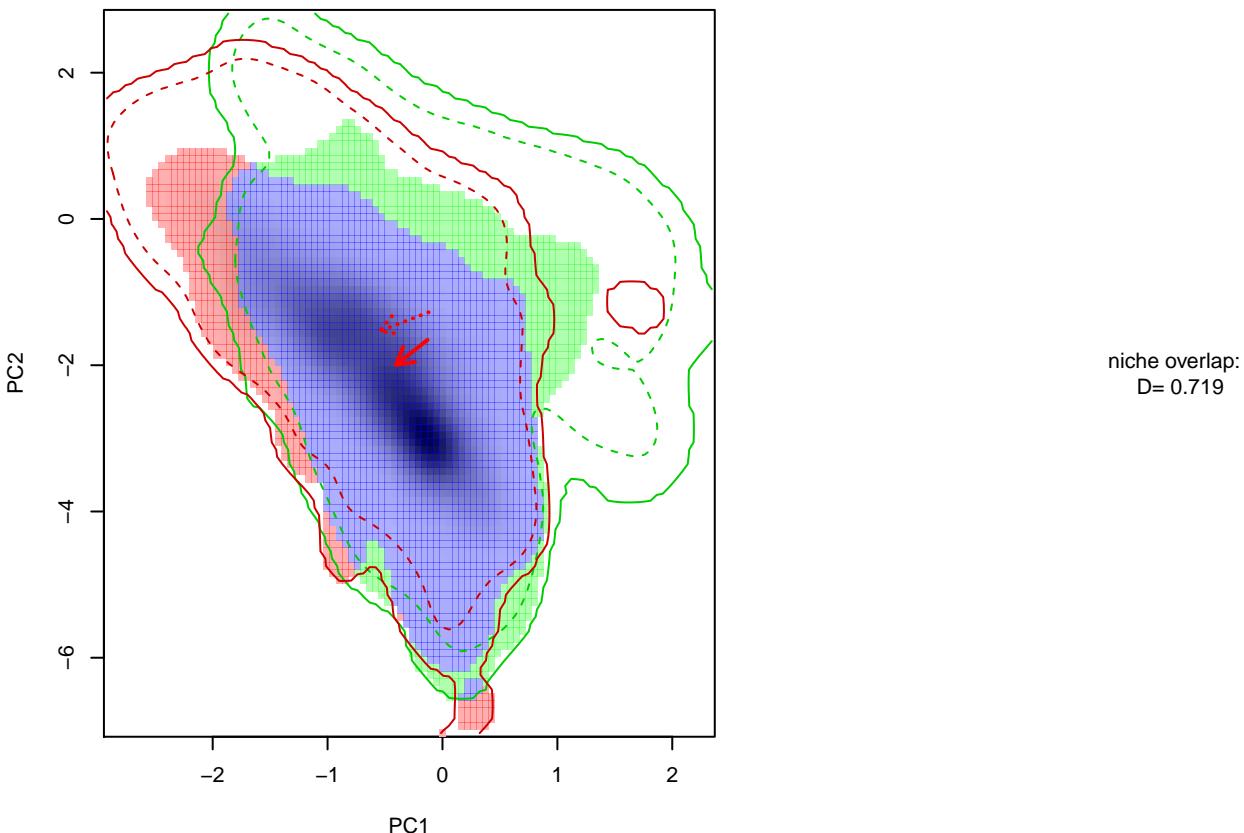
Similarity 2→1



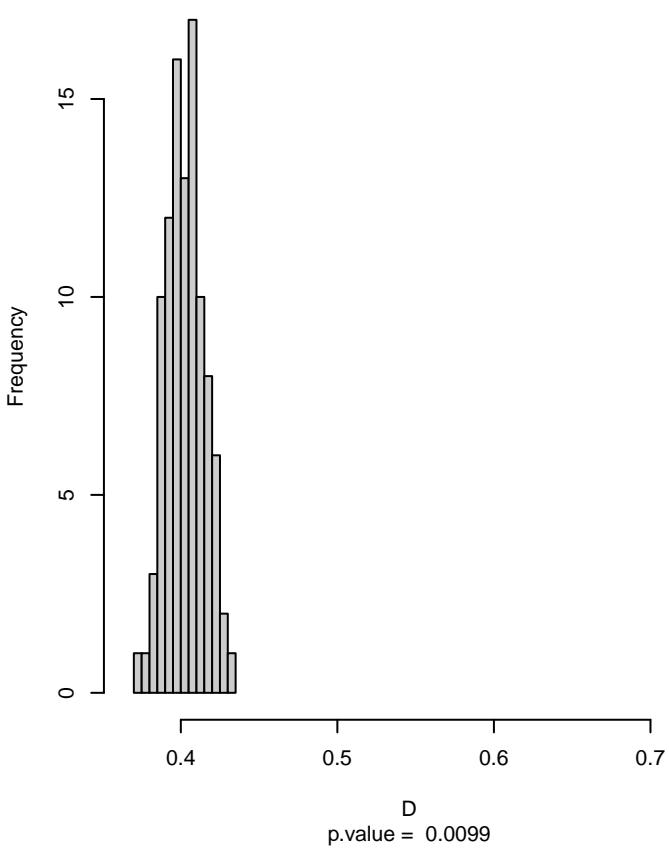
Similarity 1→2



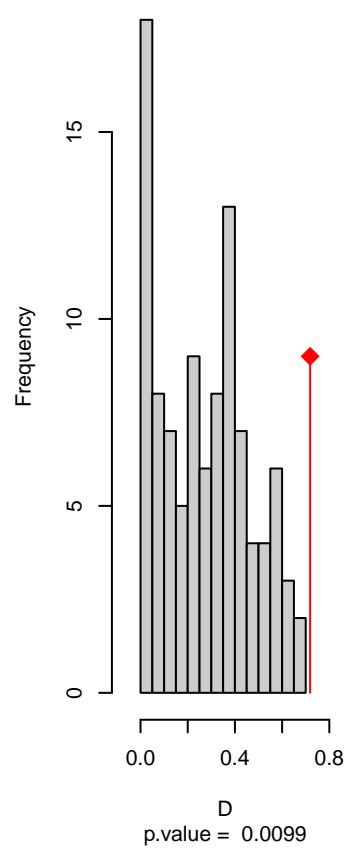
Stelgidopteryx_ruficollis seasonal overlap-hypo wi



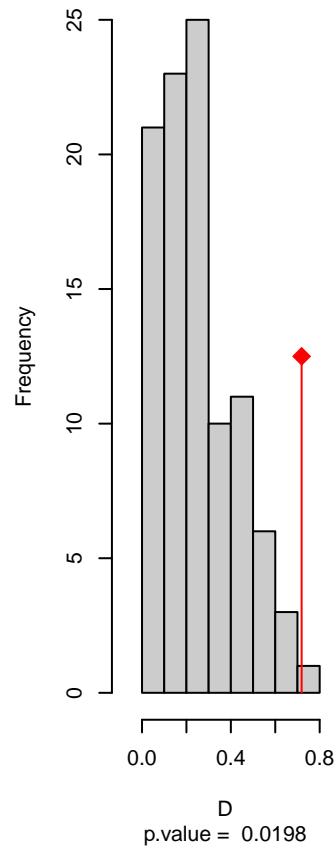
Equivalency



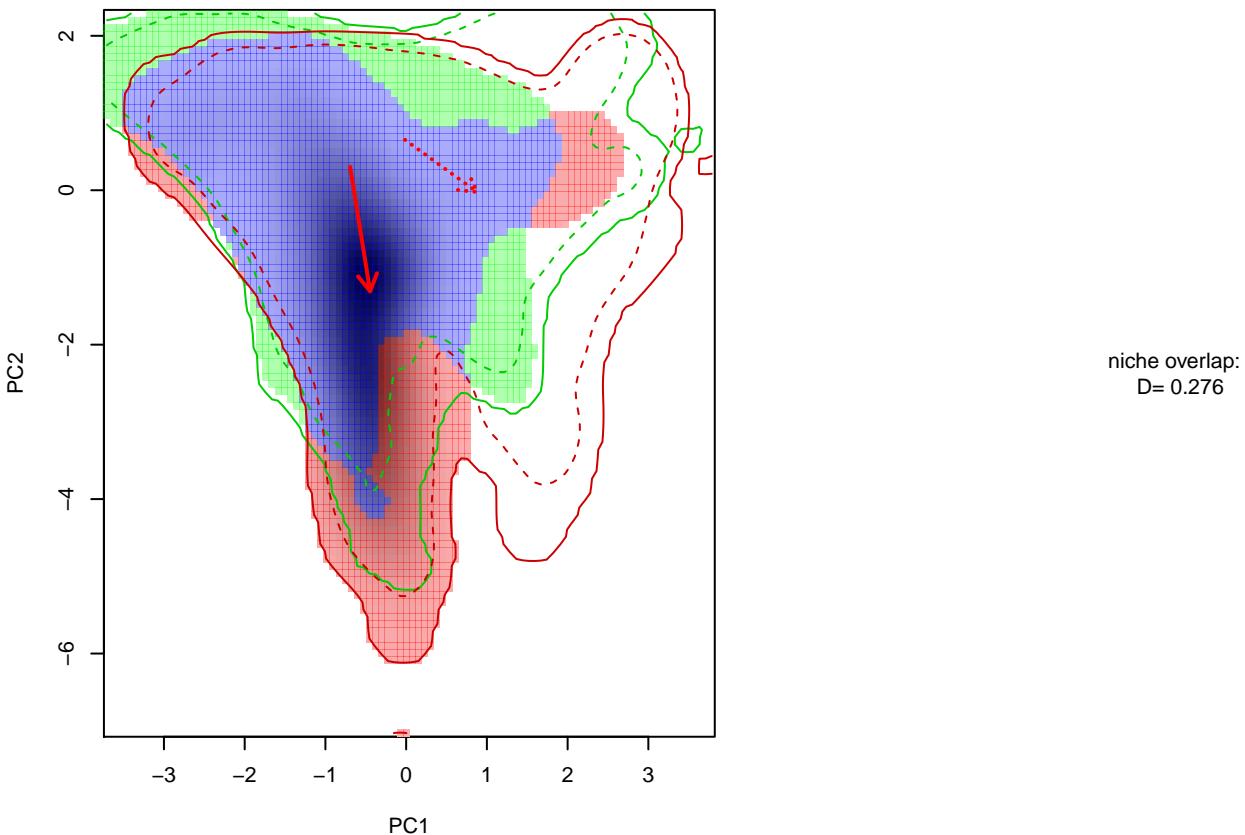
Similarity 2→1



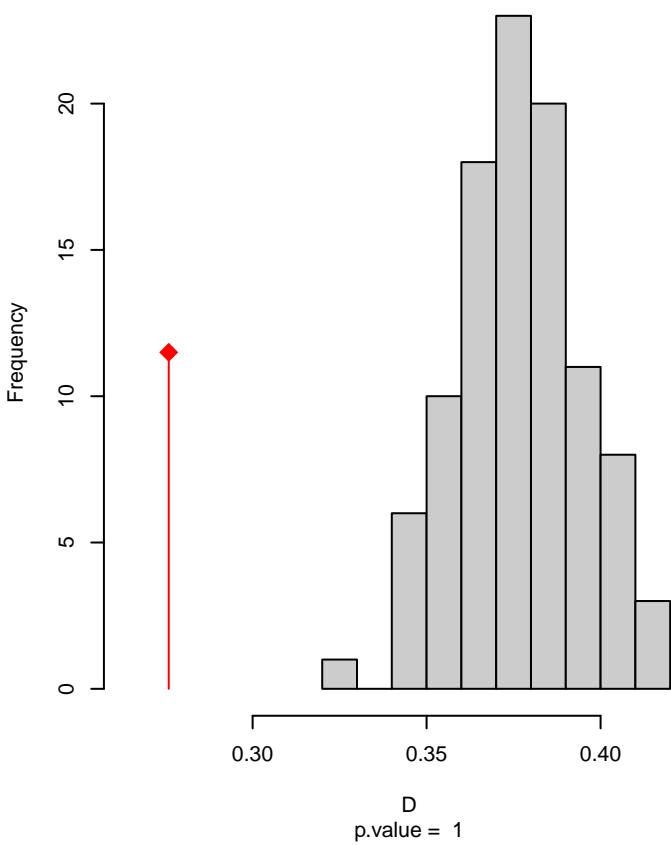
Similarity 1→2



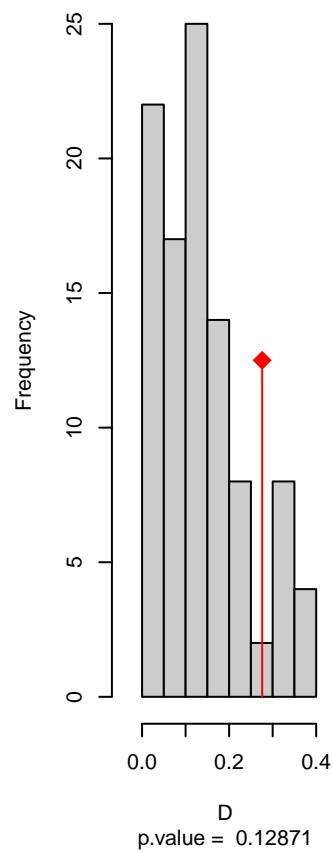
Stelgidopteryx_serripennis seasonal overlap



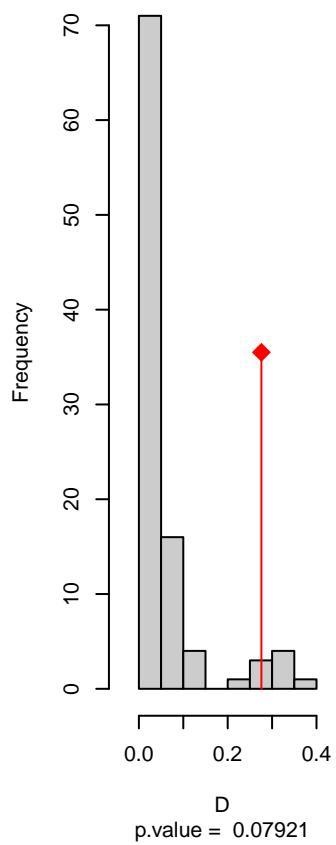
Equivalency



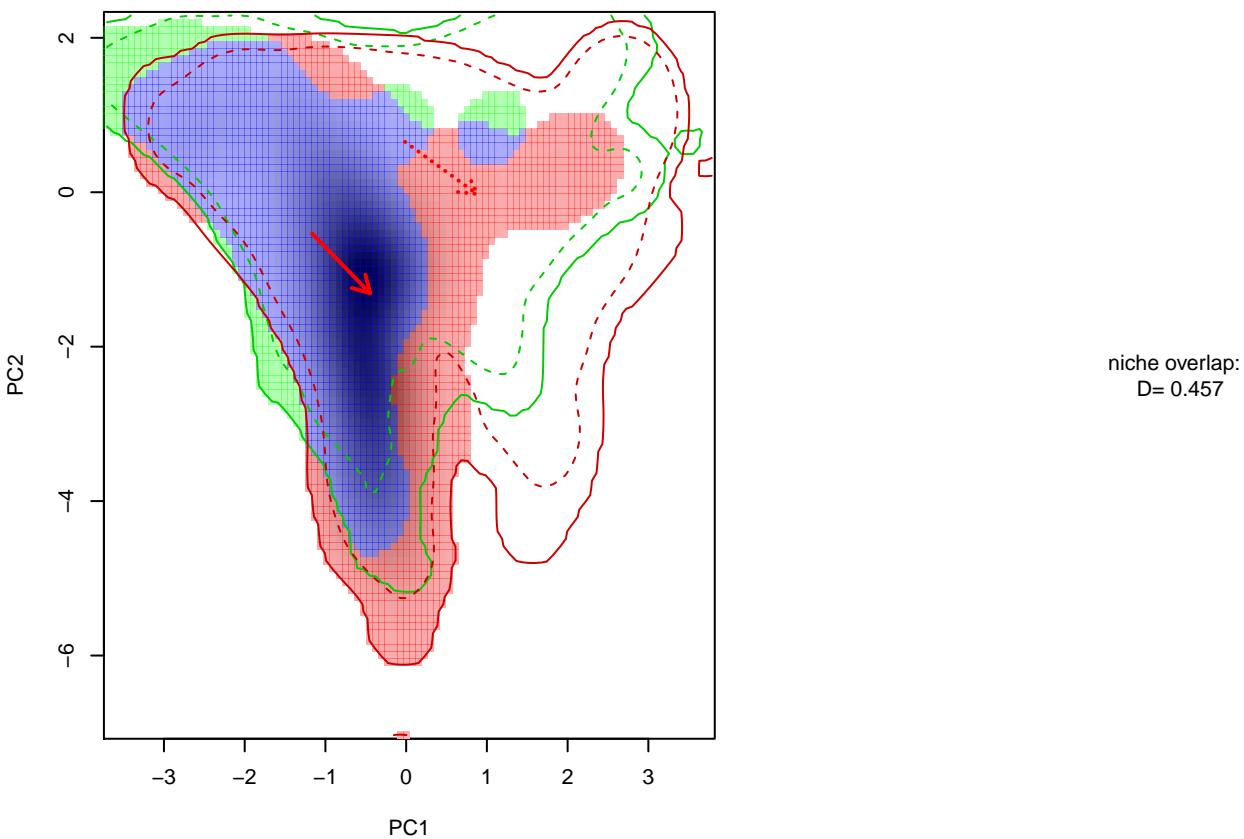
Similarity 2→1



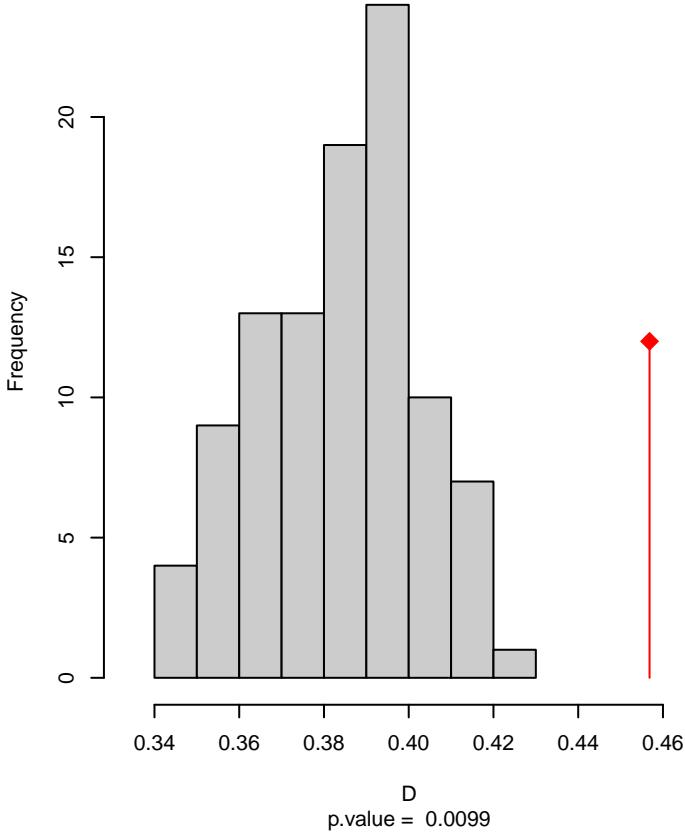
Similarity 1→2



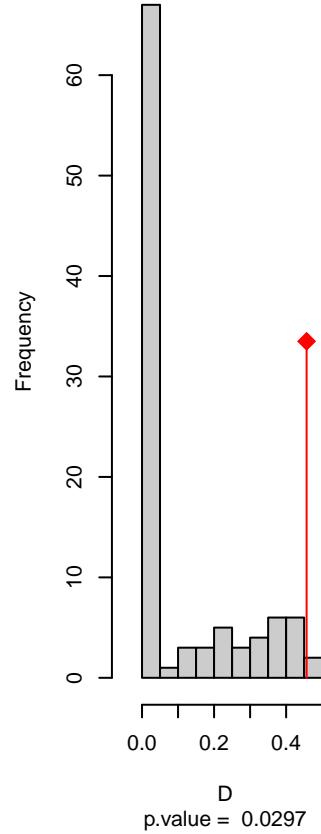
Stelgidopteryx serripennis seasonal overlap–hypo.br



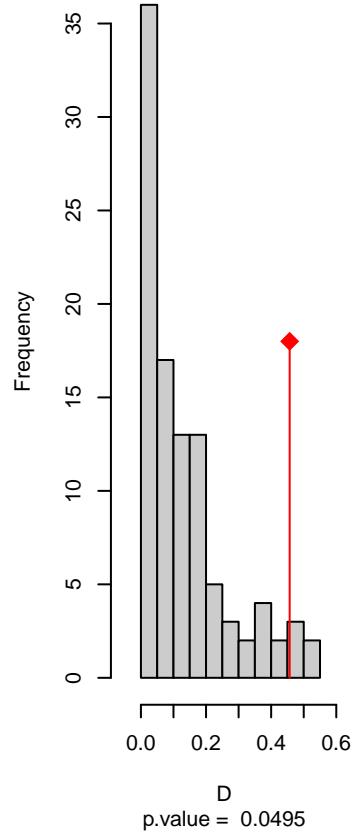
Equivalency



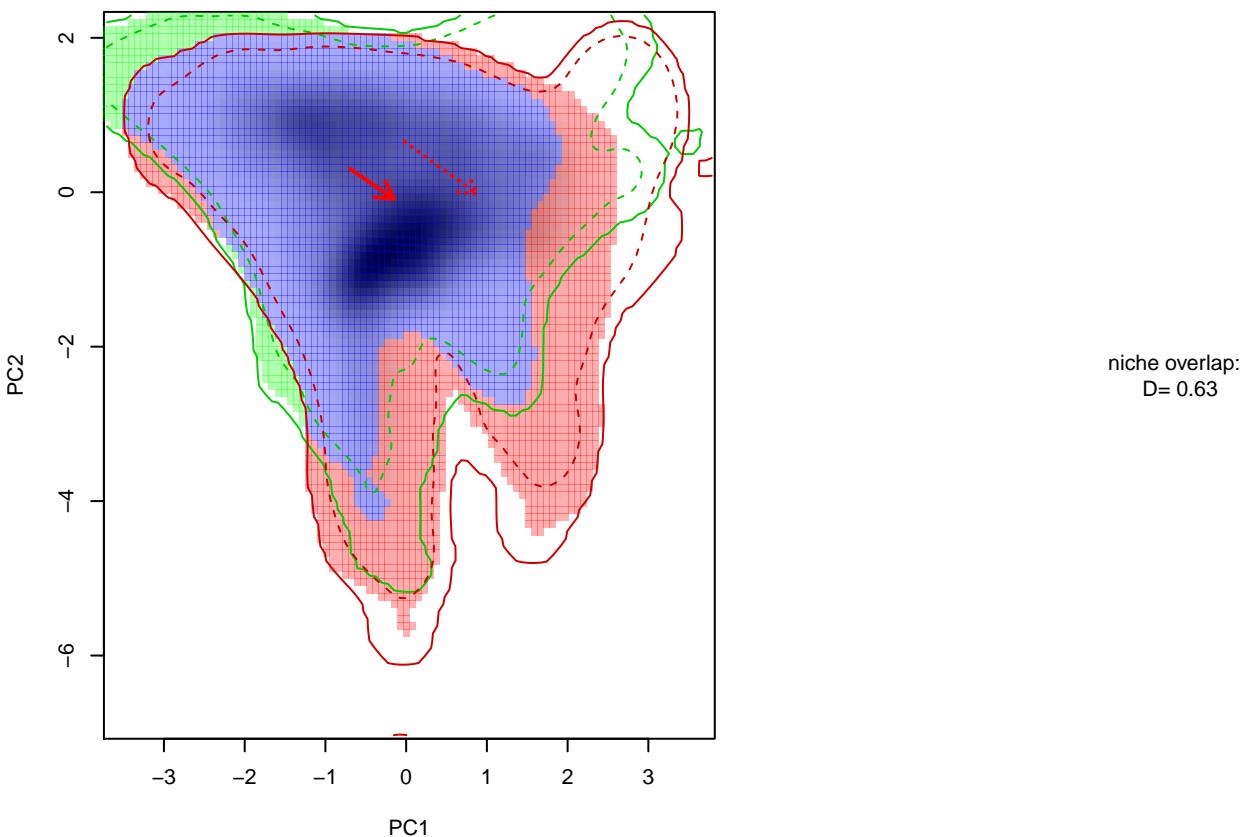
Similarity 2→1



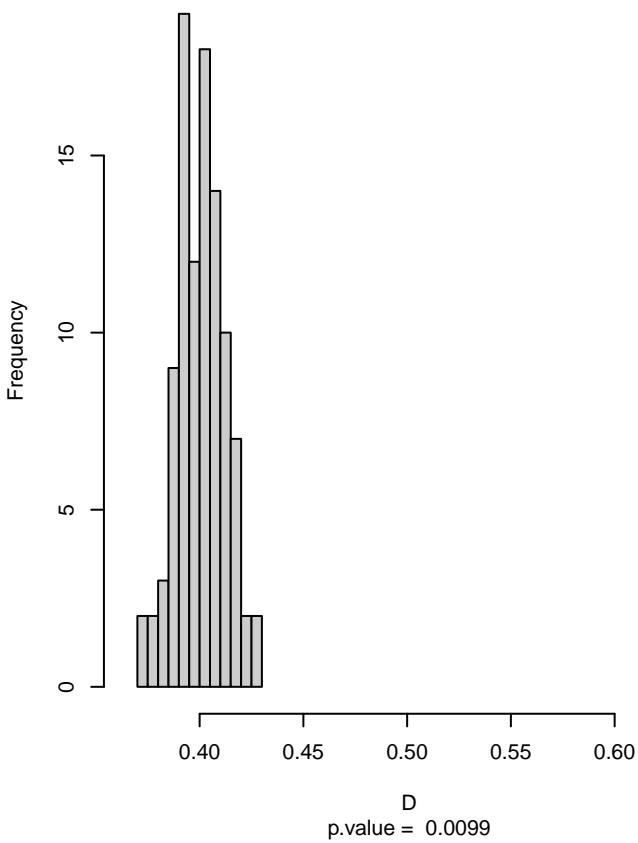
Similarity 1→2



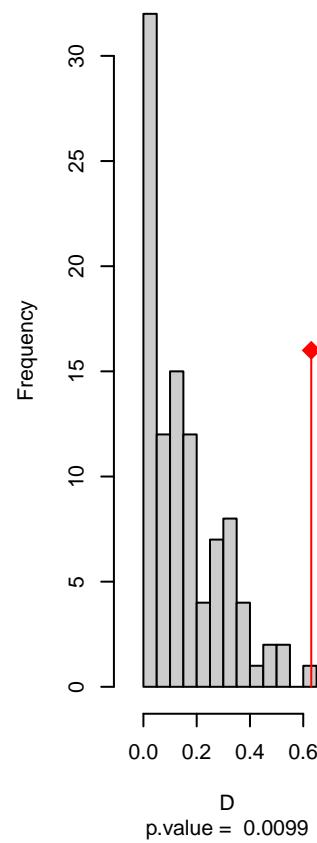
Stelgidopteryx serripennis seasonal overlap-hypo wi



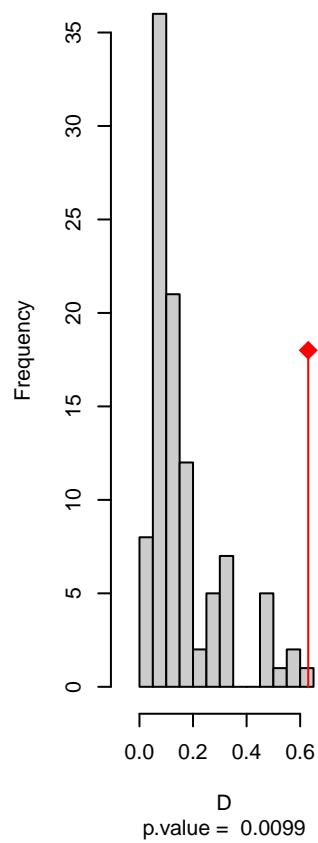
Equivalency



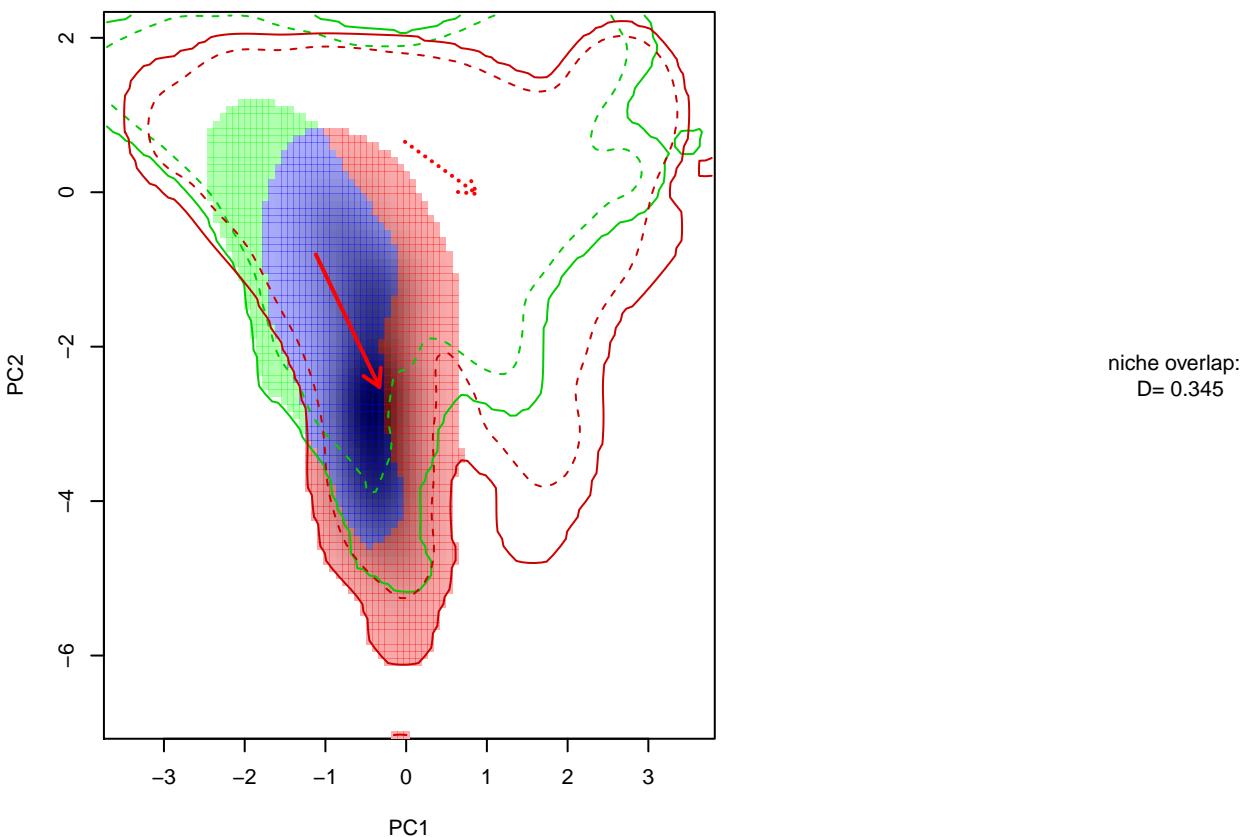
Similarity 2→1



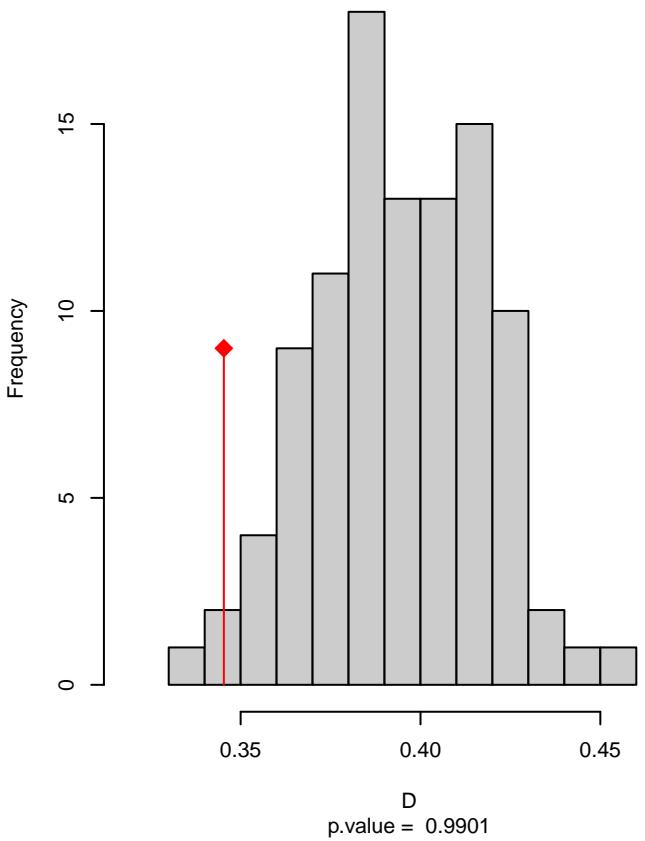
Similarity 1→2



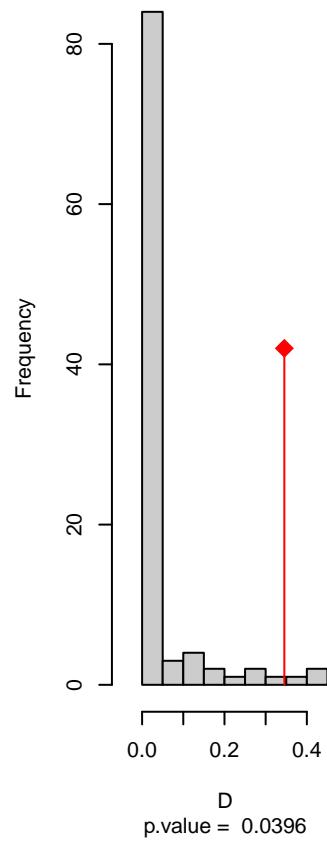
Tachycineta albilinea seasonal overlap



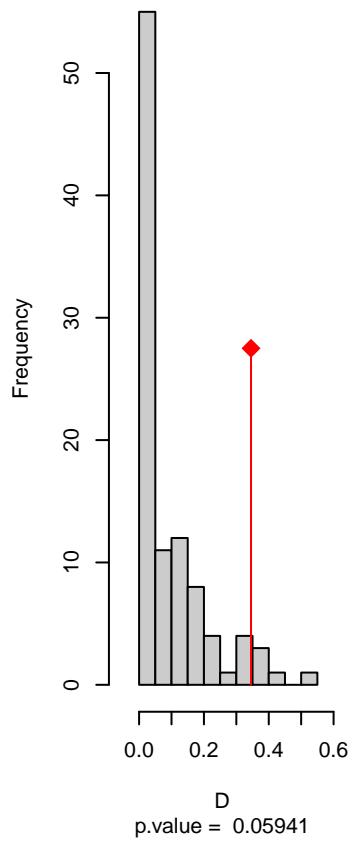
Equivalency



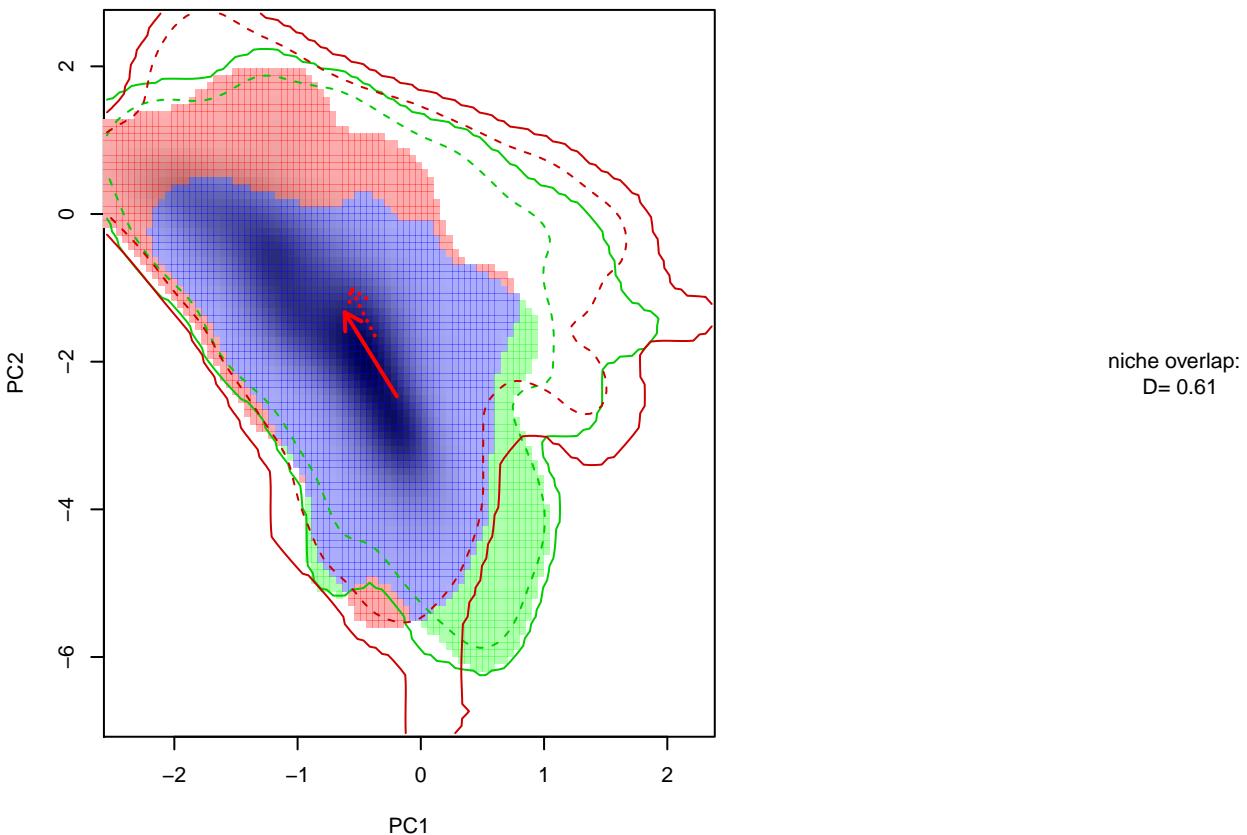
Similarity 2→1



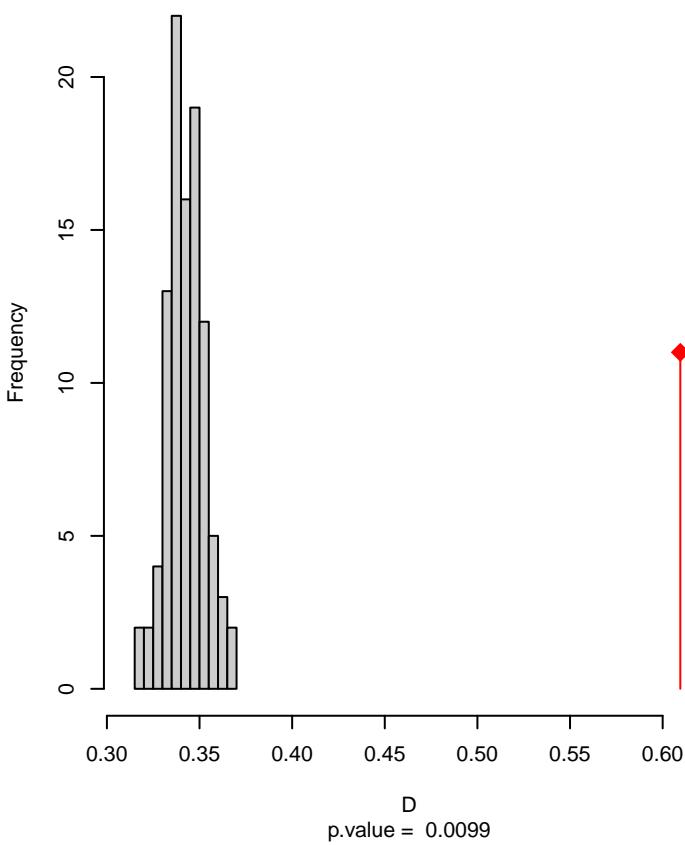
Similarity 1→2



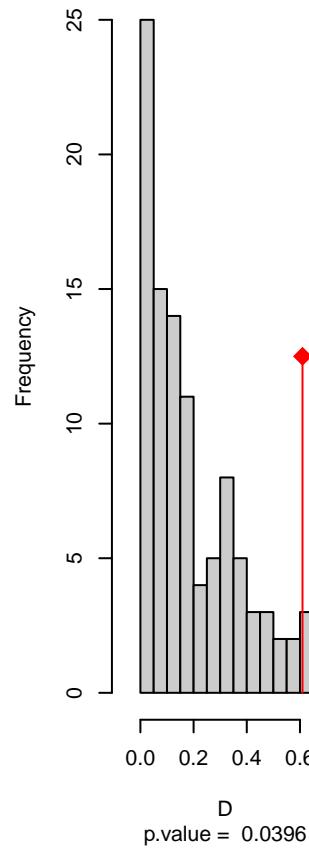
Tachycineta albiventer seasonal overlap



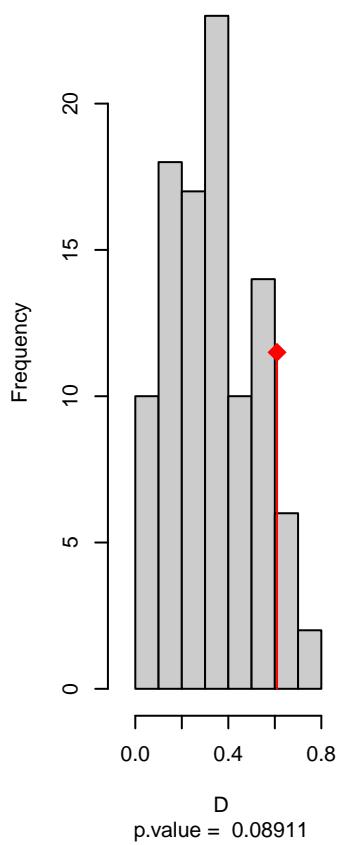
Equivalency



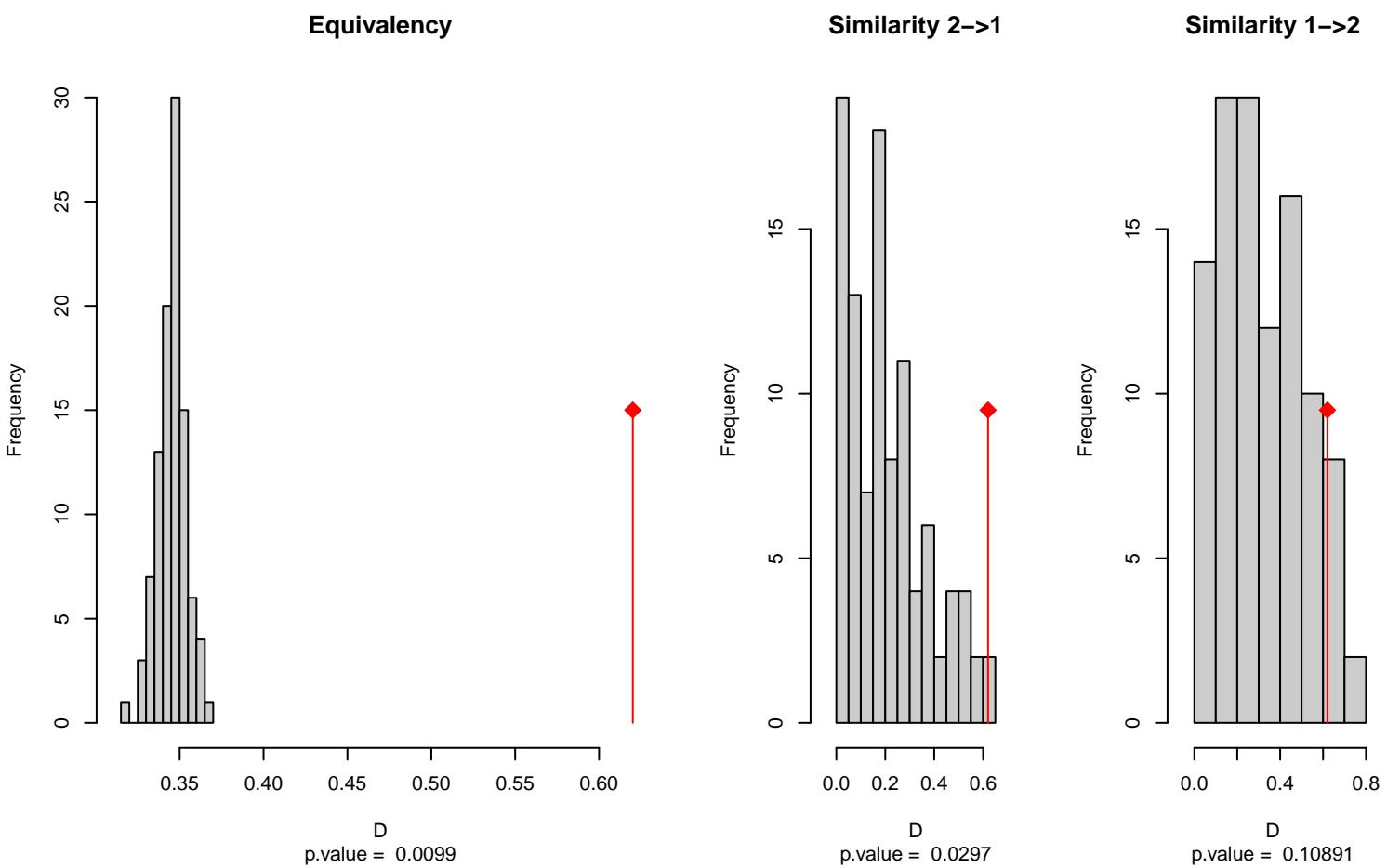
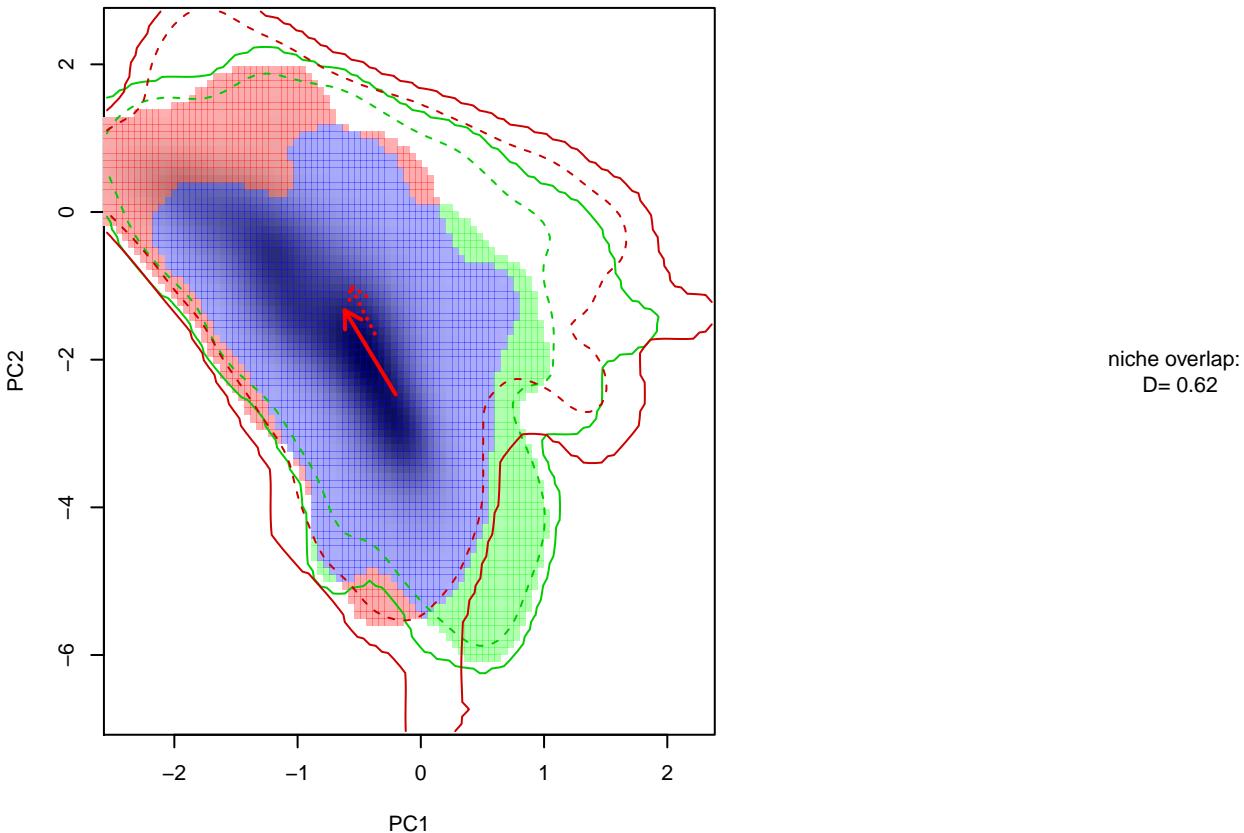
Similarity 2→1



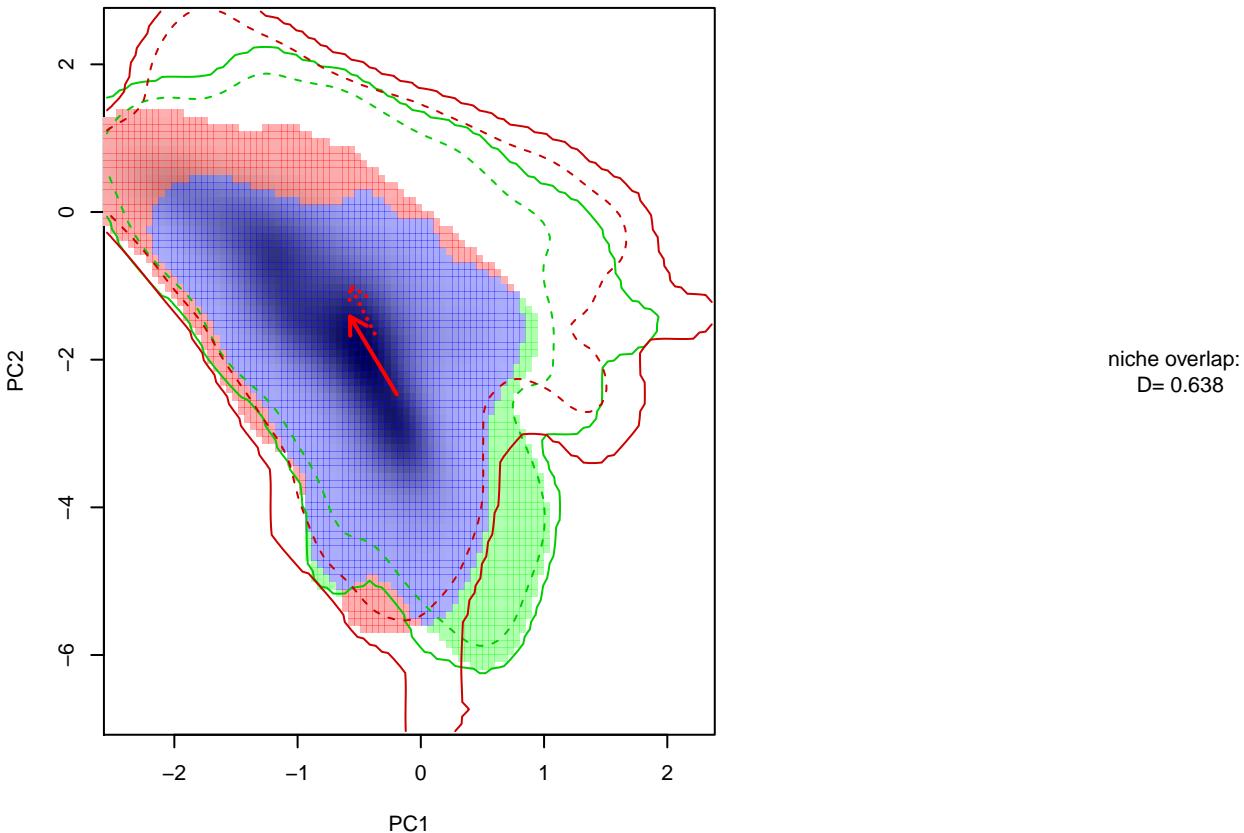
Similarity 1→2



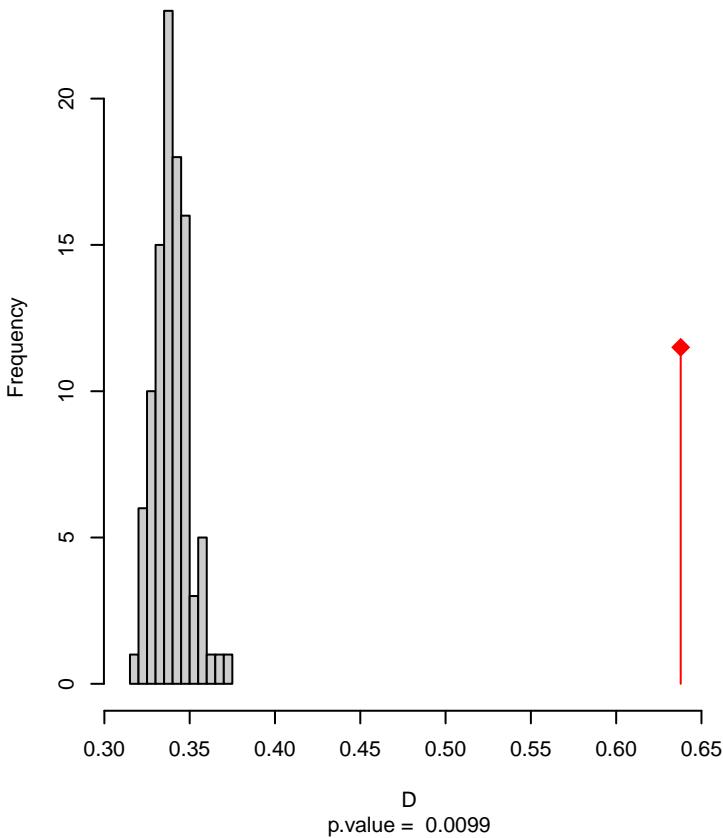
Tachycineta albiventer seasonal overlap-hypo.br



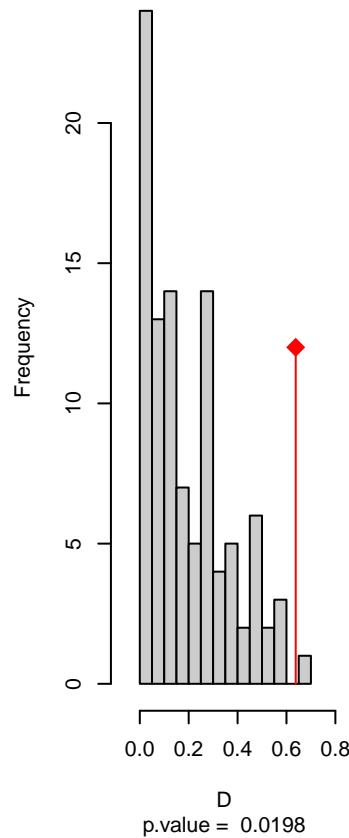
Tachycineta albiventer seasonal overlap-hypo wi



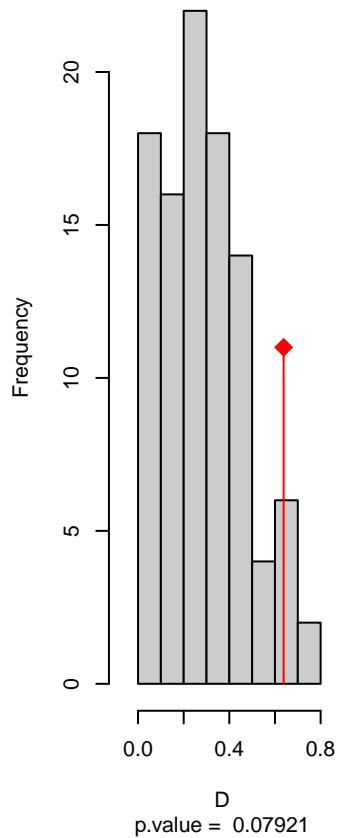
Equivalency



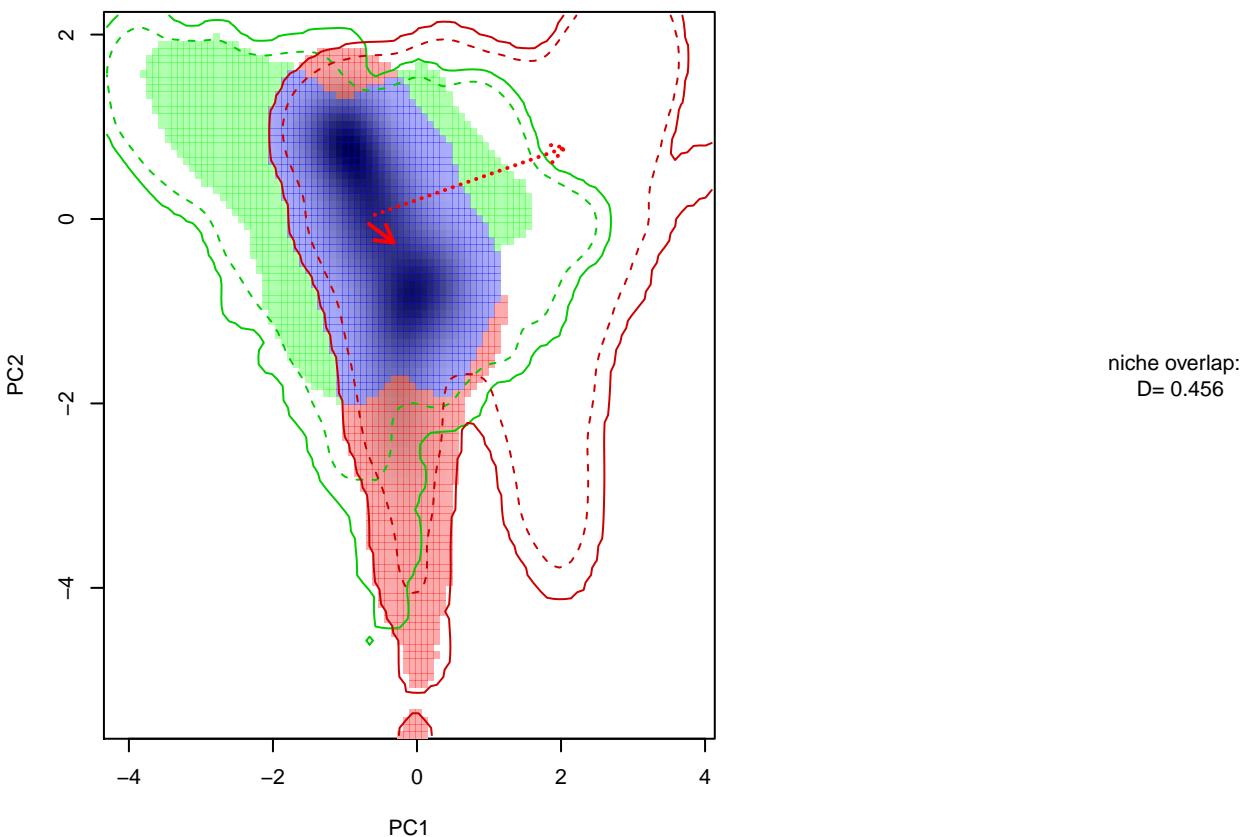
Similarity 2→1



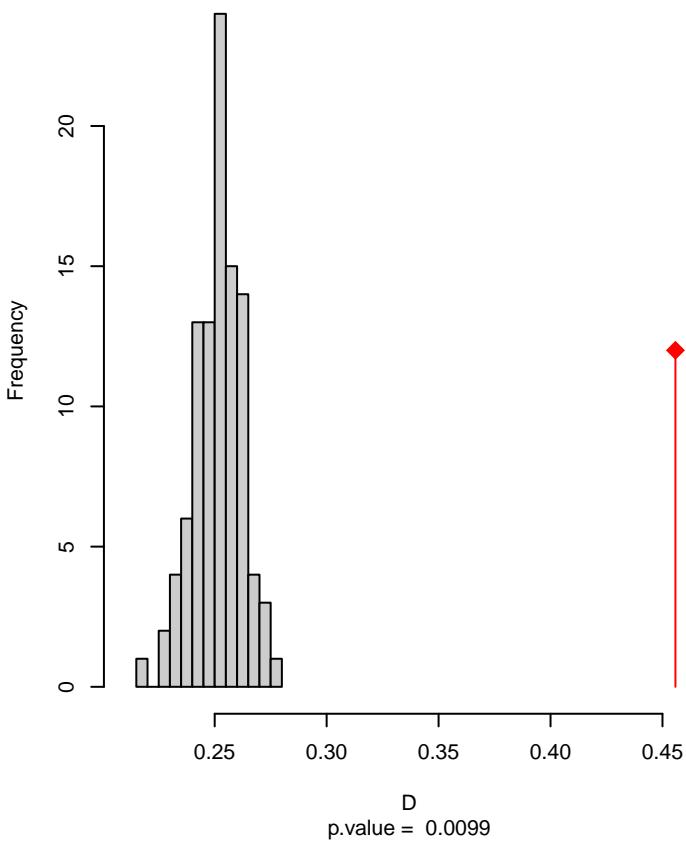
Similarity 1→2



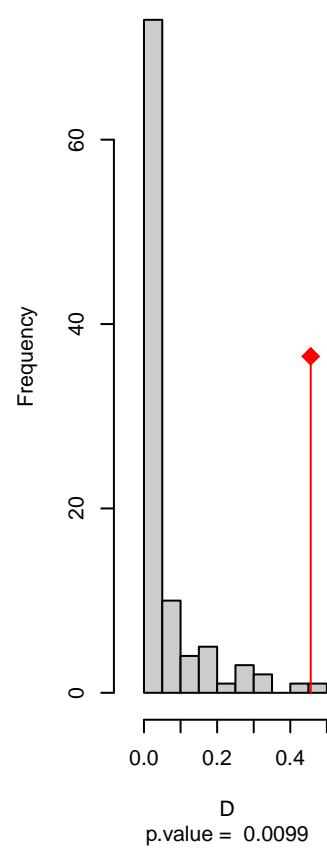
Tachycineta_bicolor seasonal overlap



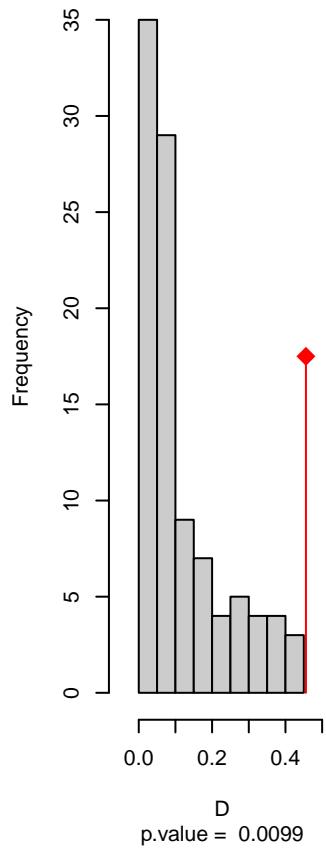
Equivalency



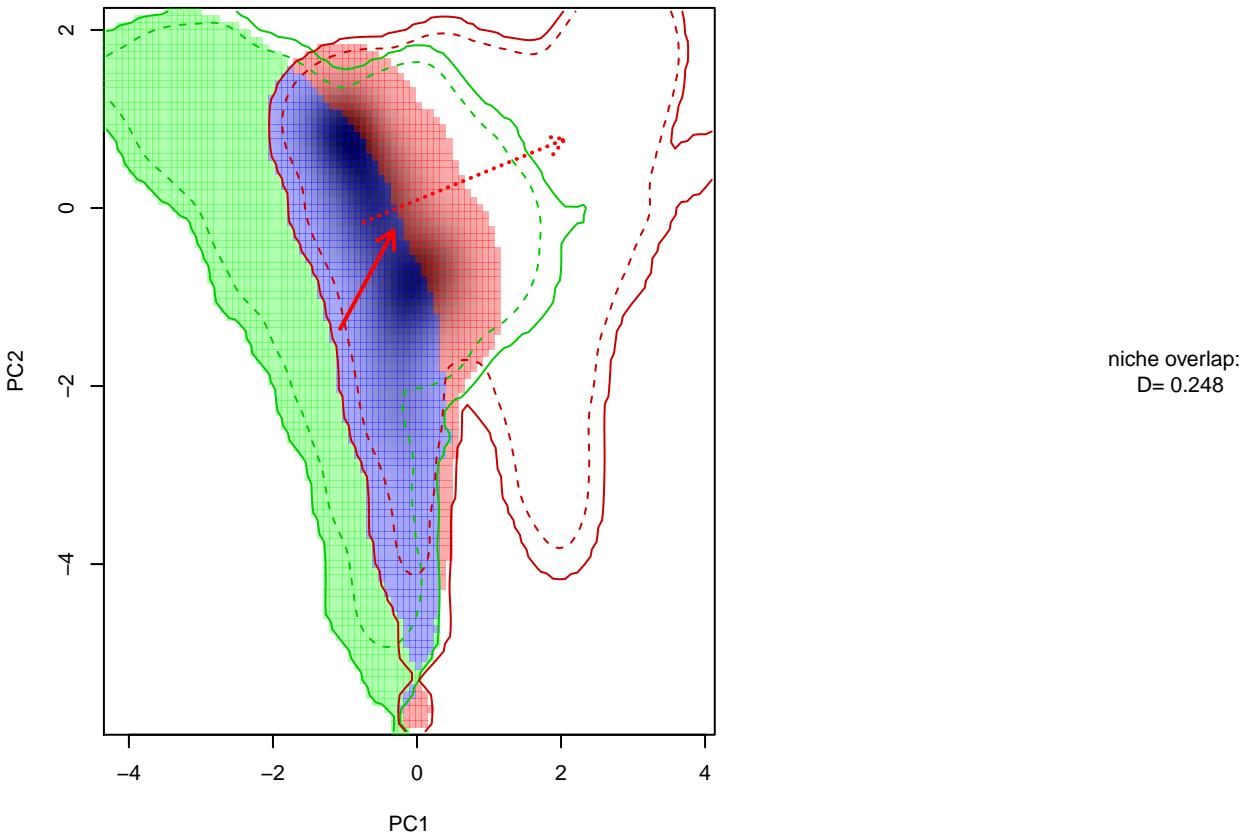
Similarity 2→1



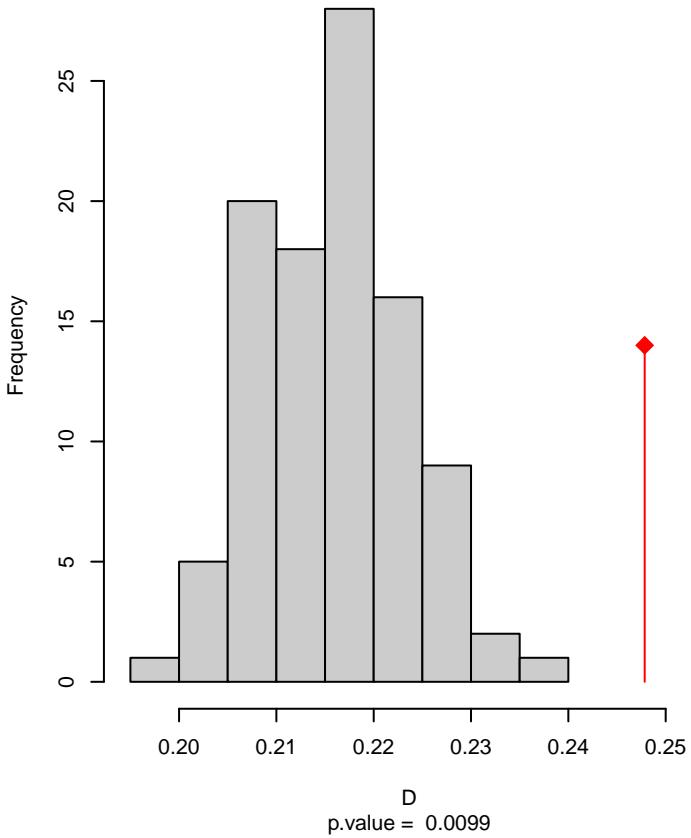
Similarity 1→2



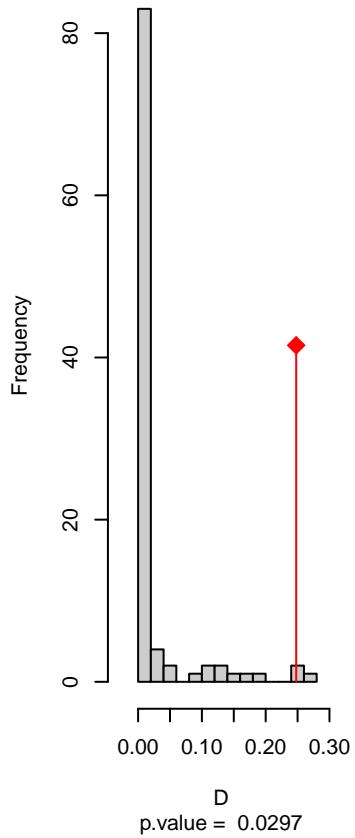
Tachycineta bicolor seasonal overlap-hypo.br



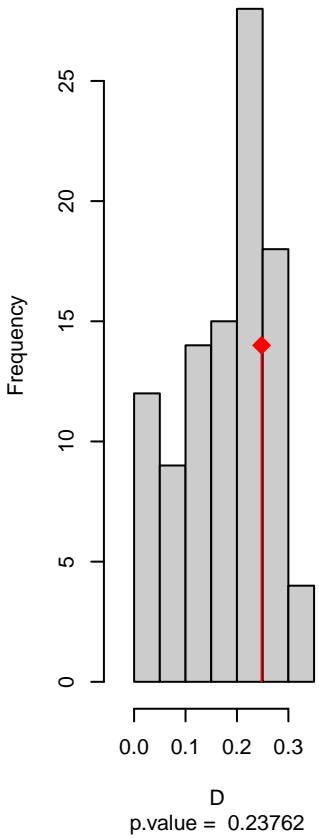
Equivalency



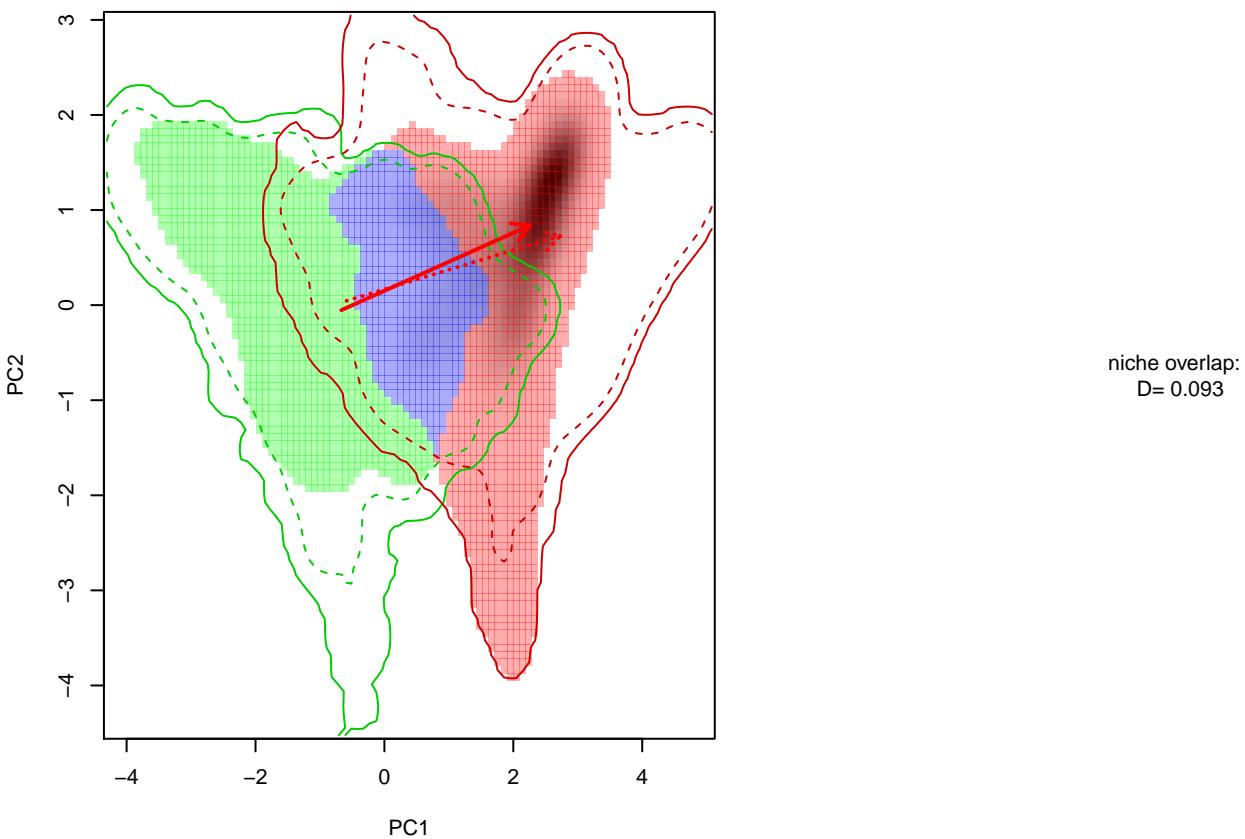
Similarity 2→1



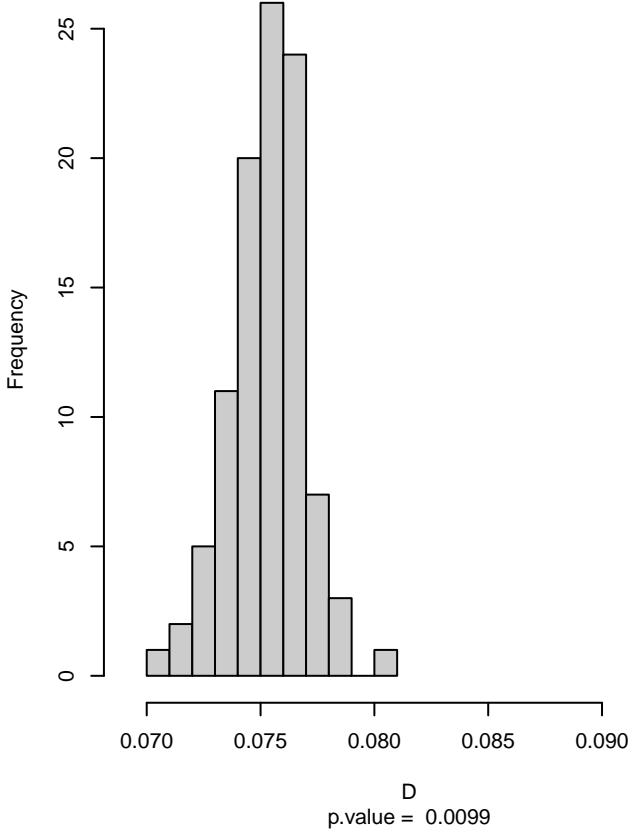
Similarity 1→2



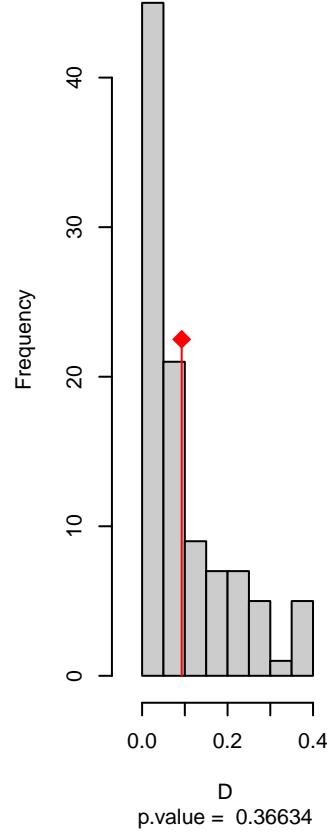
Tachycineta_bicolor seasonal overlap-hypo wi



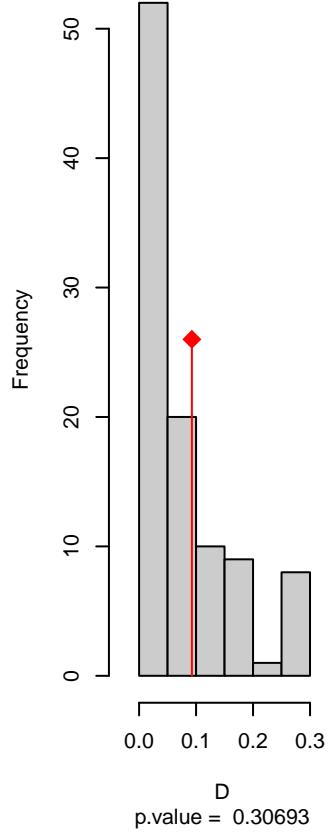
Equivalency



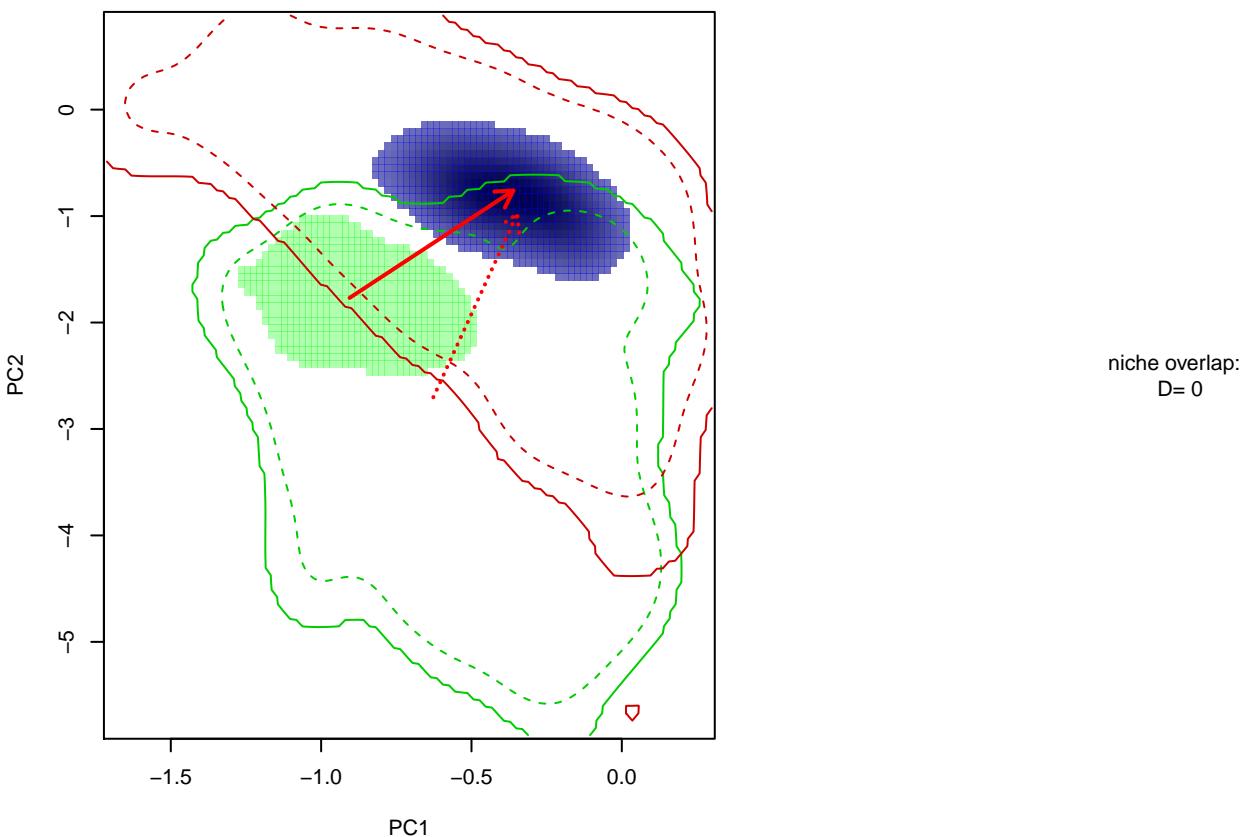
Similarity 2→1



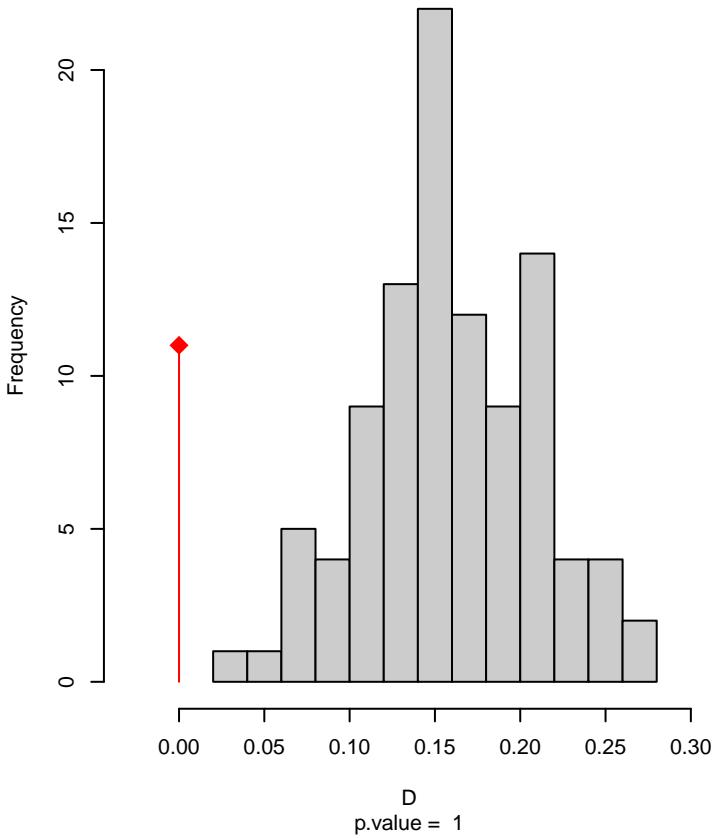
Similarity 1→2



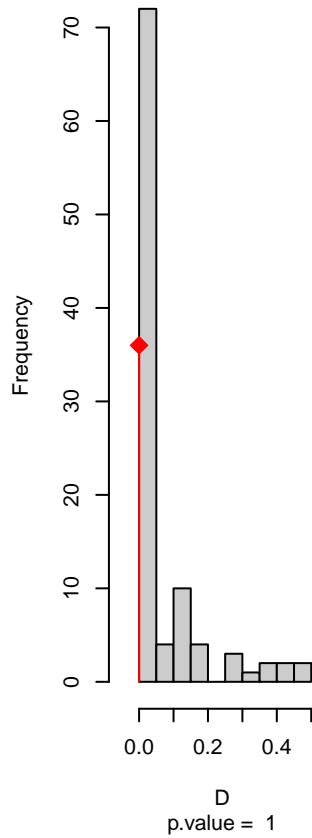
Tachycineta_euchrysea seasonal overlap



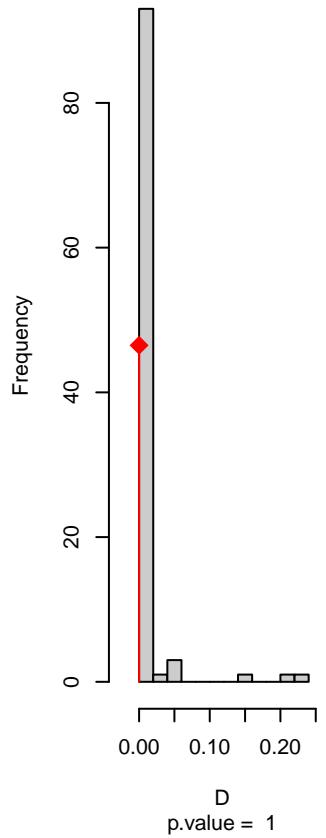
Equivalency



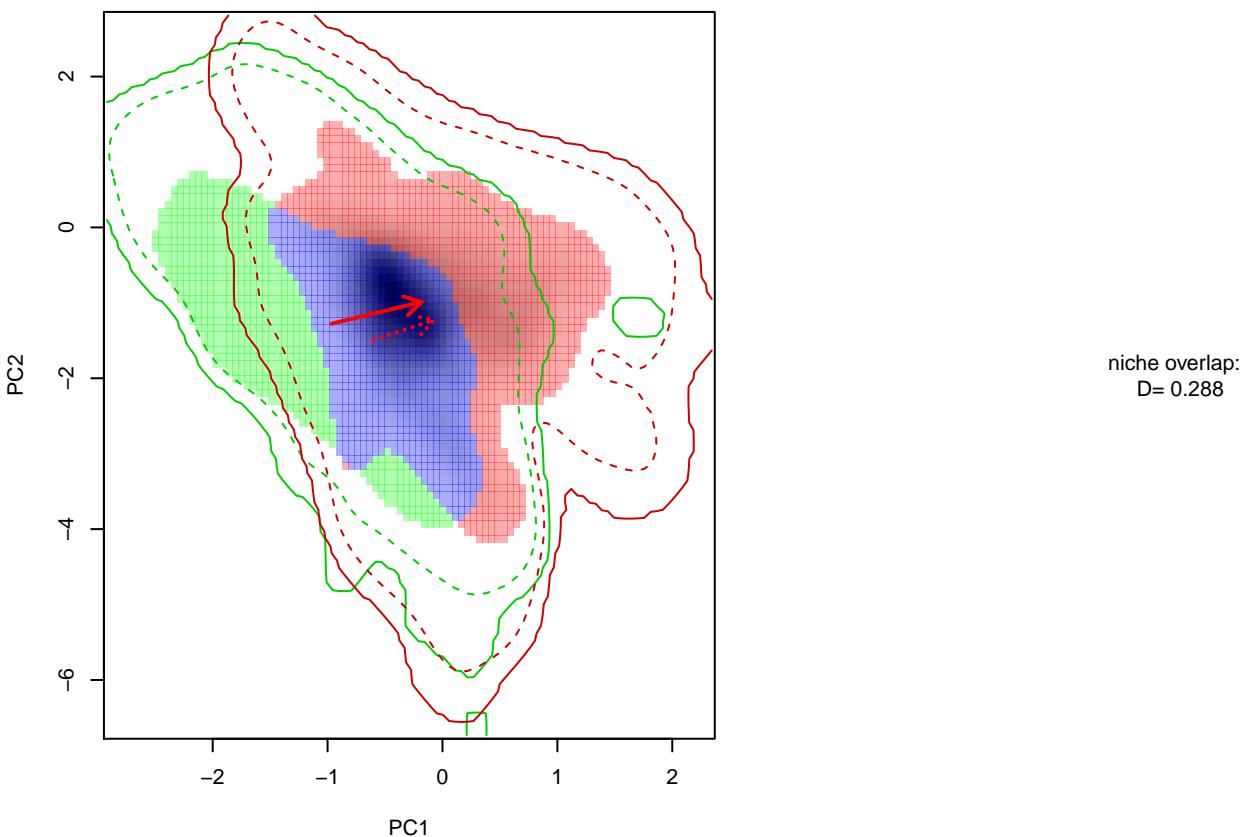
Similarity 2→1



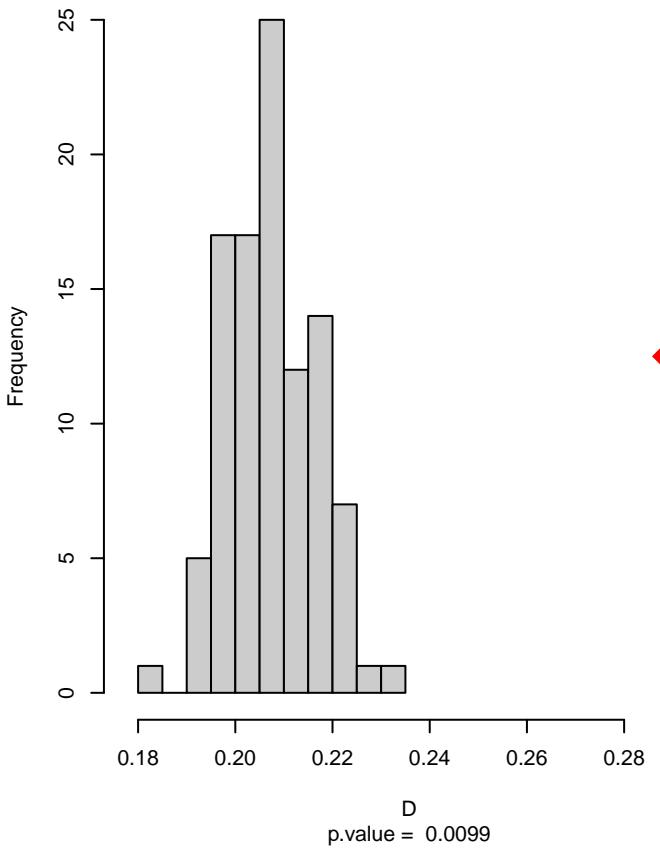
Similarity 1→2



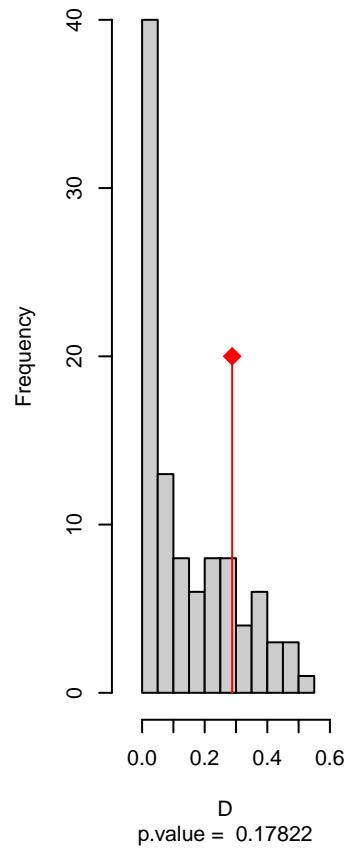
Tachycineta_leucorrhoa seasonal overlap



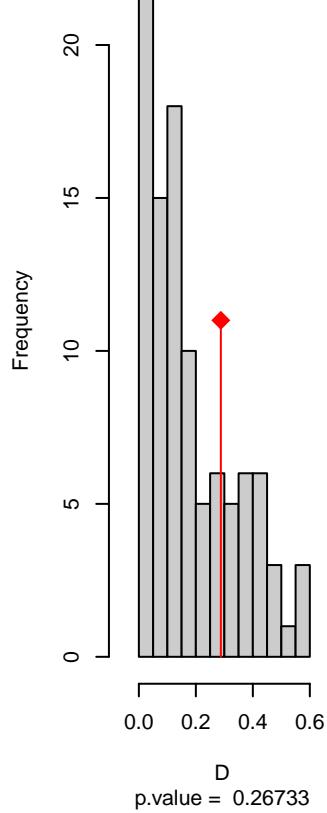
Equivalency



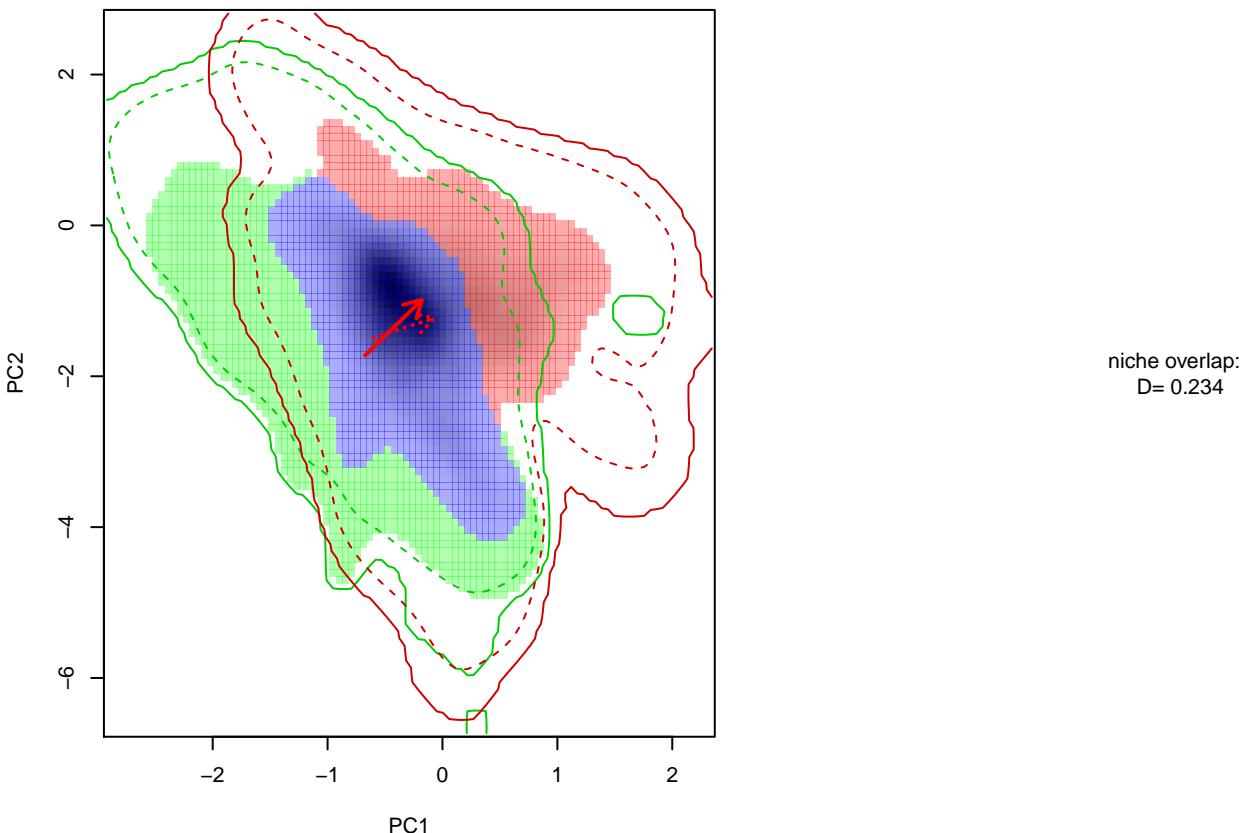
Similarity 2→1



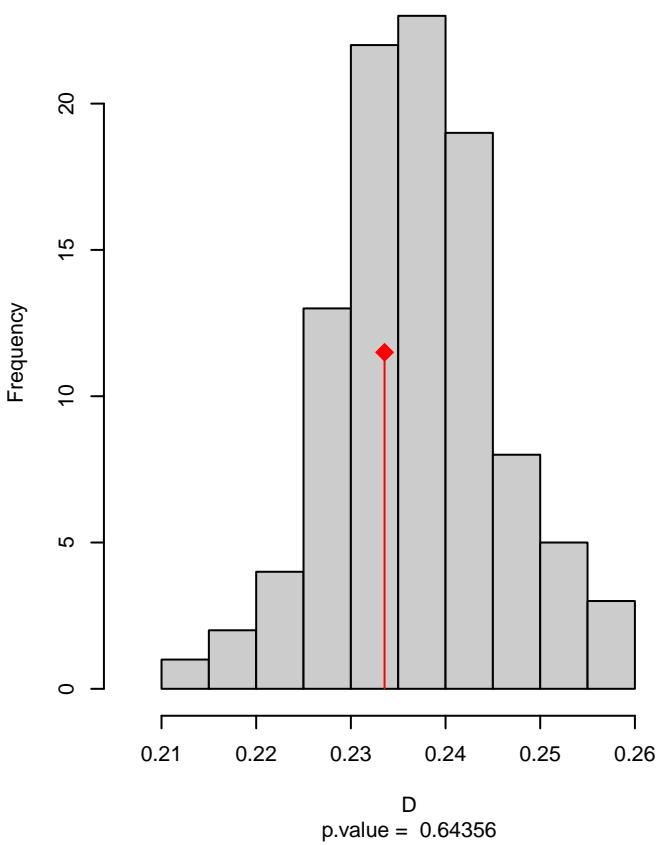
Similarity 1→2



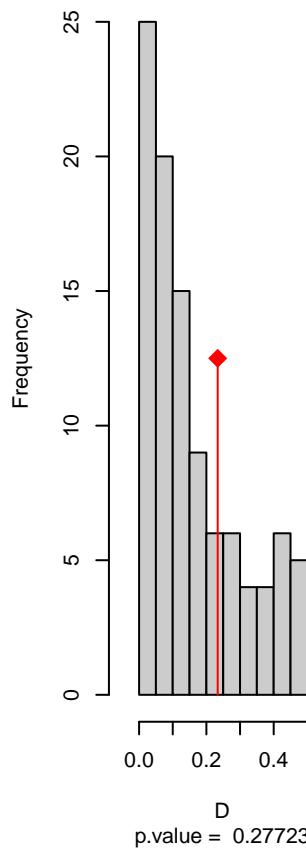
Tachycineta_leucorrhoa seasonal overlap-hypo.br



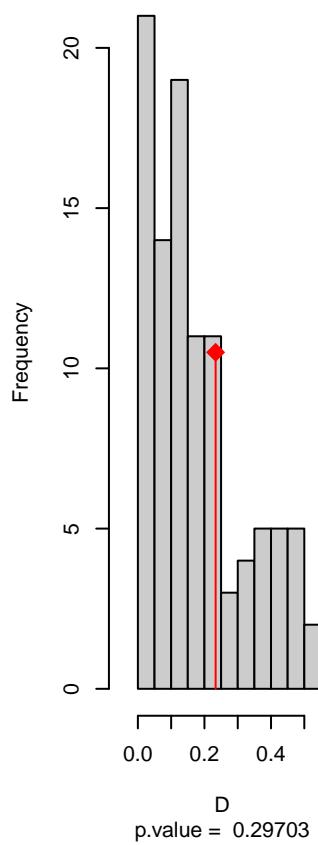
Equivalency



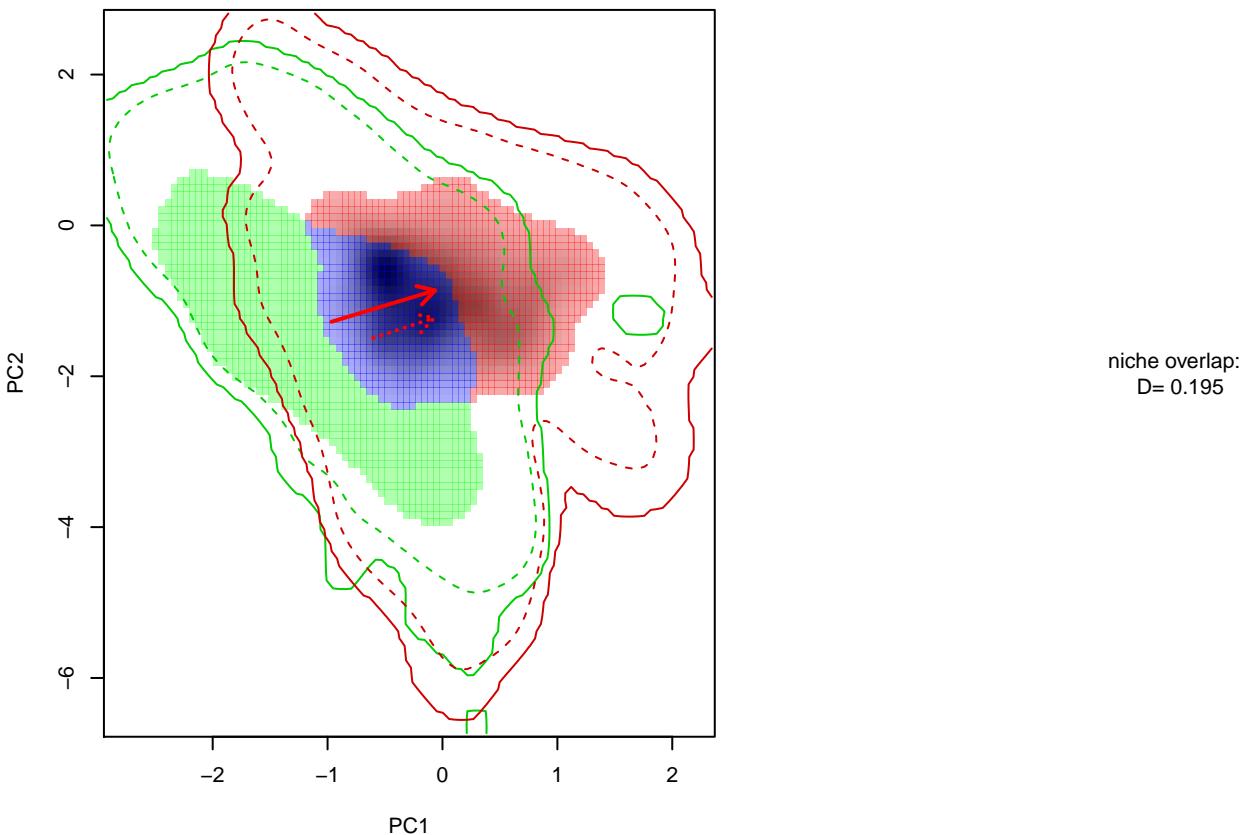
Similarity 2→1



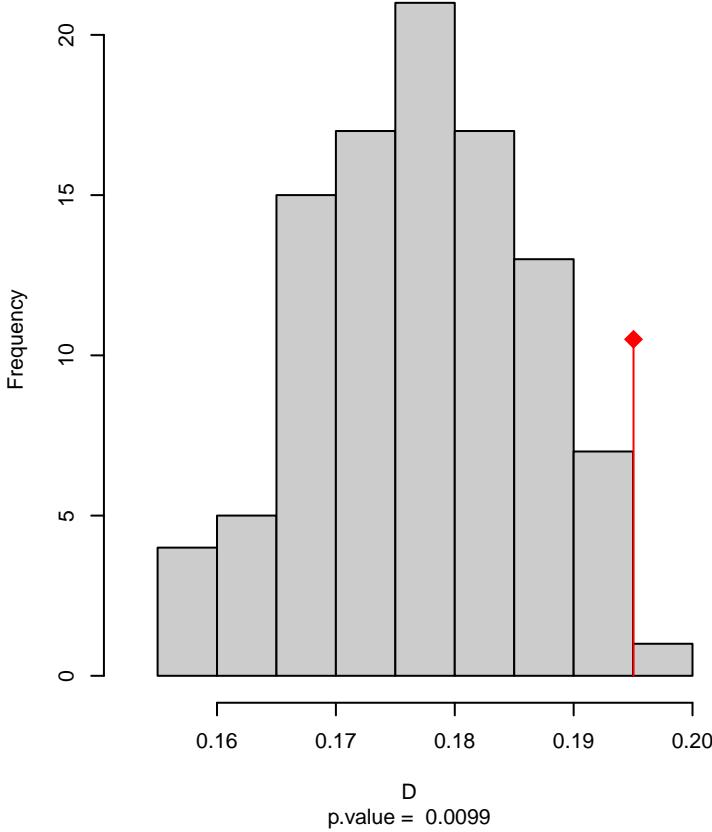
Similarity 1→2



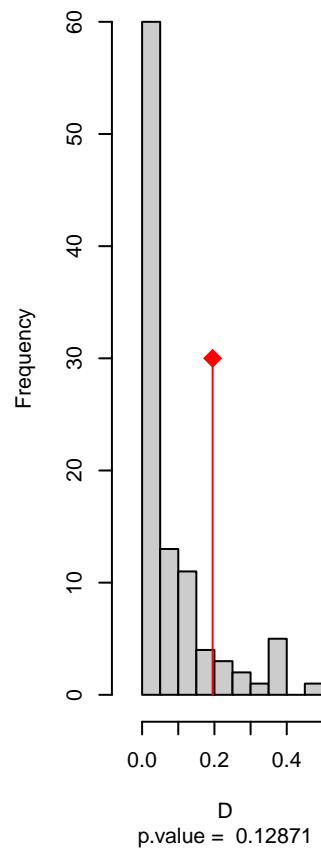
Tachycineta_leucorrhoa seasonal overlap-hypo wi



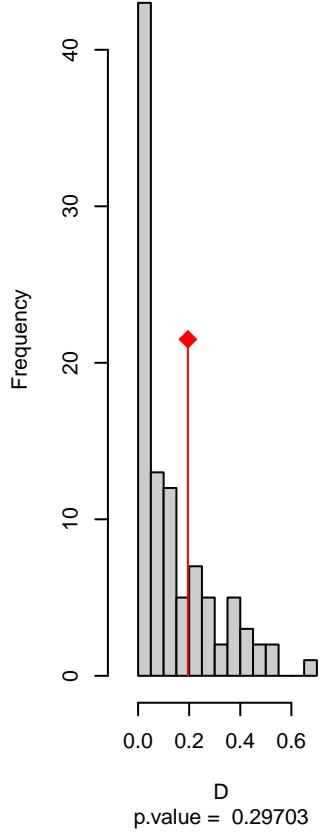
Equivalency



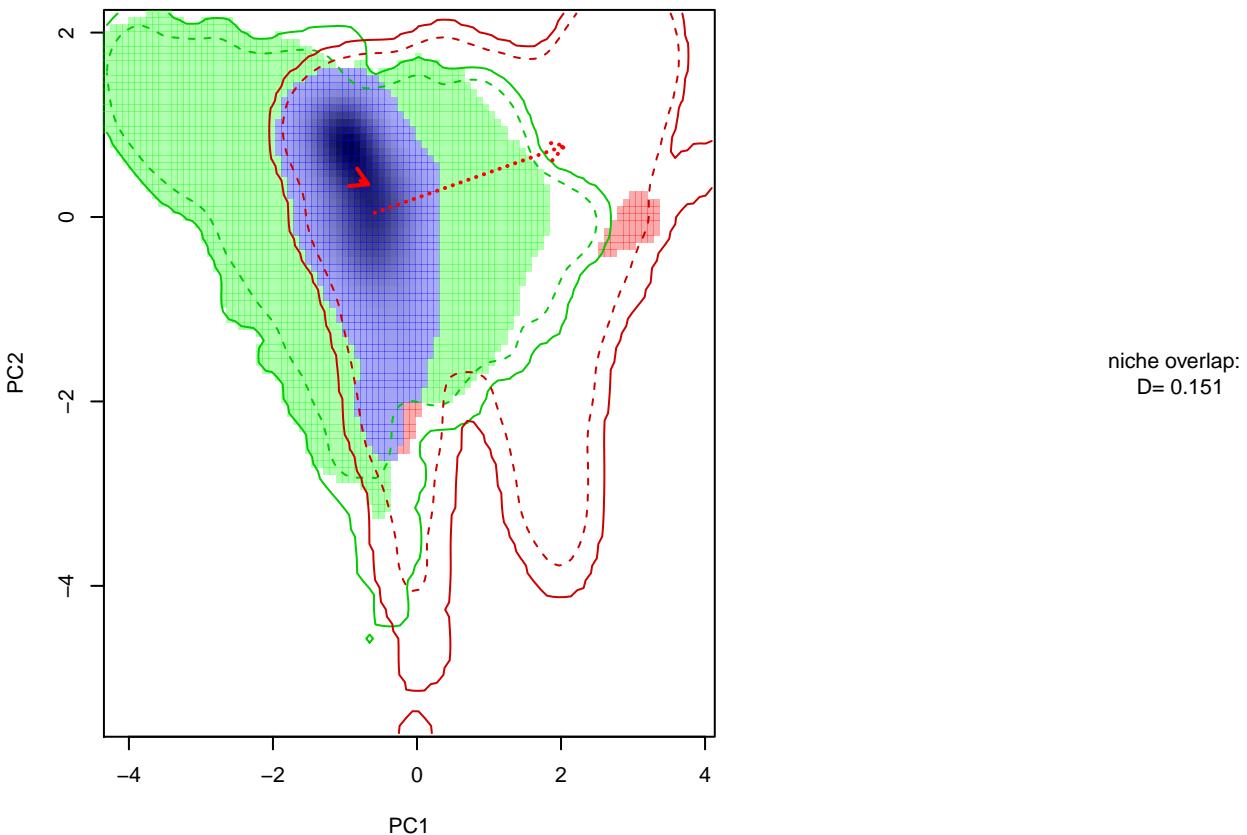
Similarity 2→1



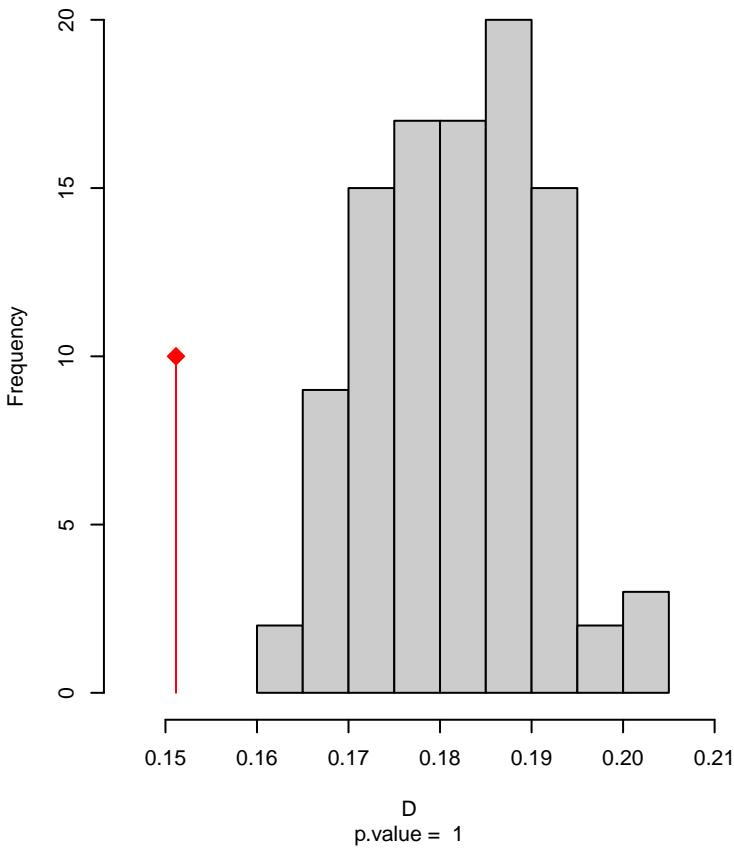
Similarity 1→2



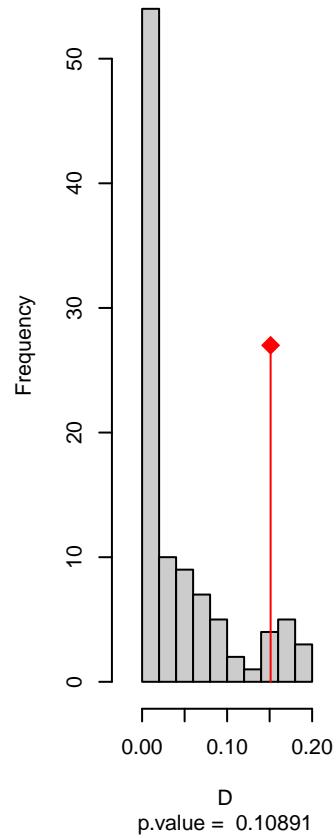
Tachycineta_thalassina seasonal overlap



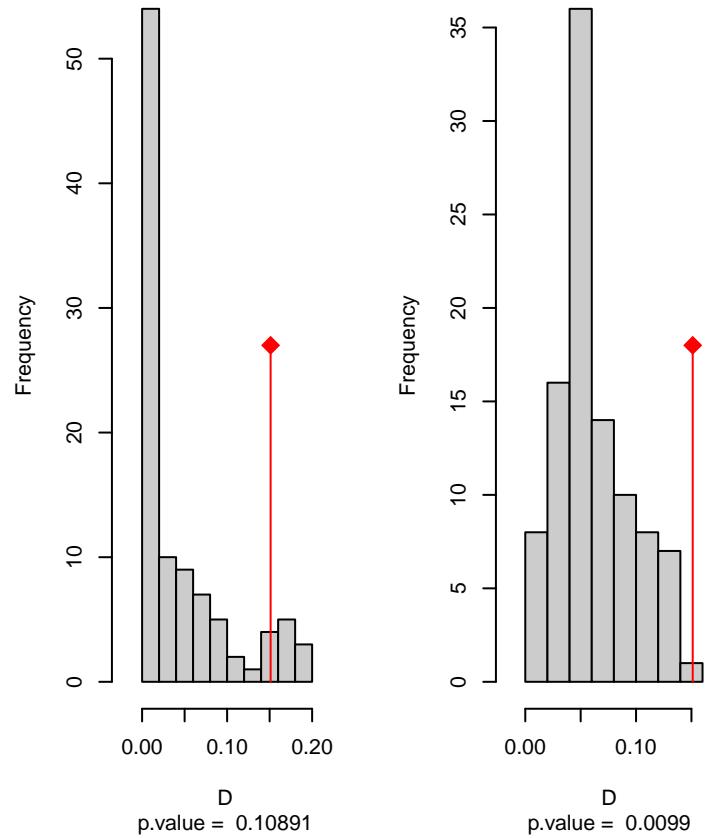
Equivalency



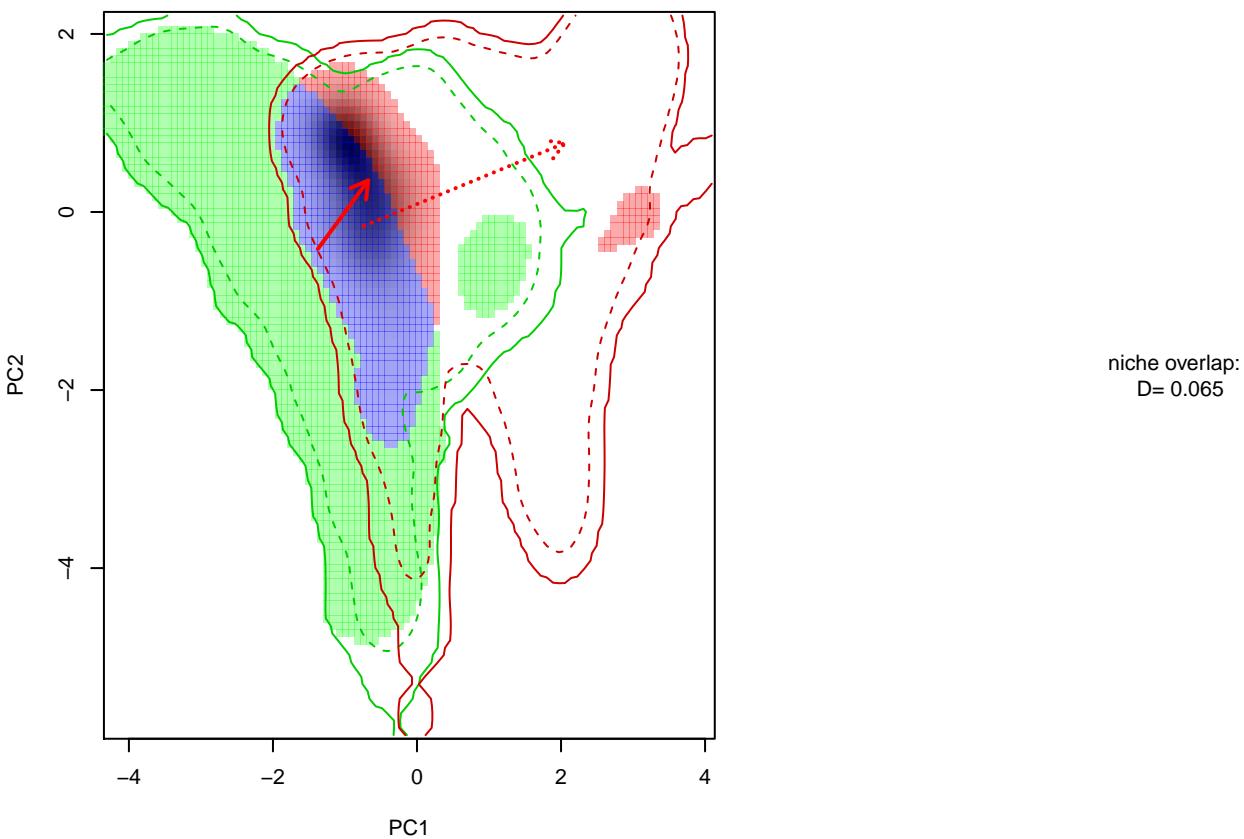
Similarity 2→1



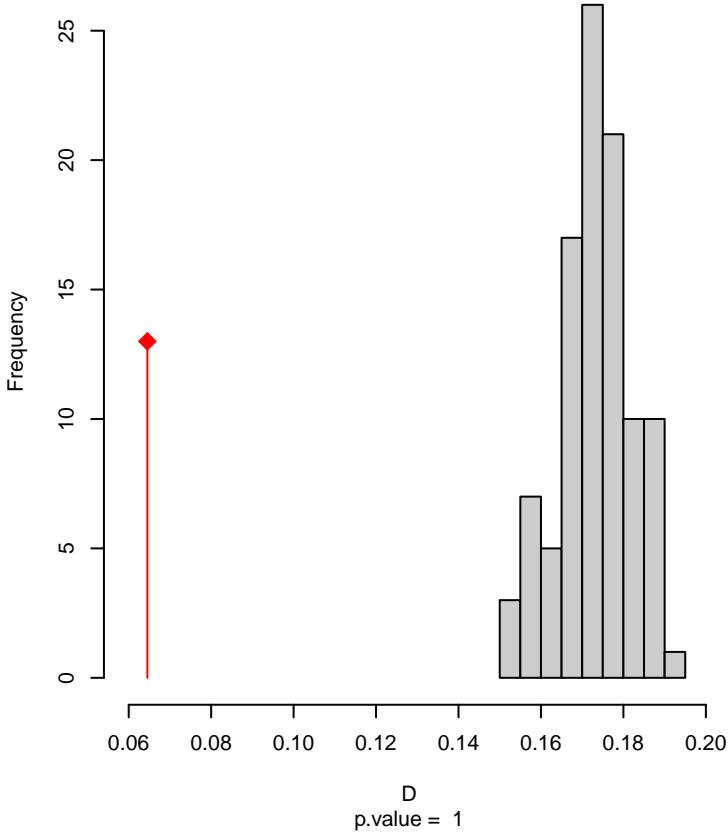
Similarity 1→2



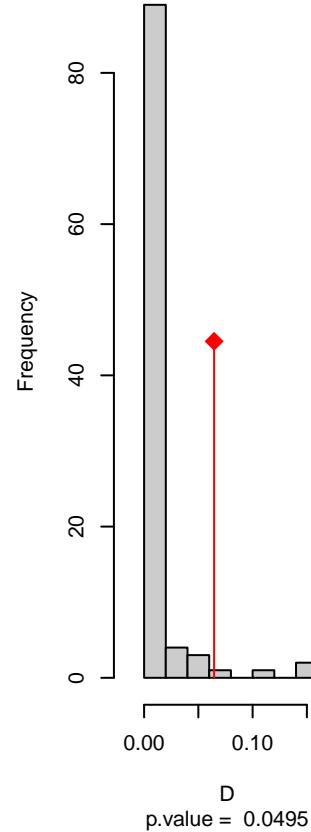
Tachycineta_thalassina seasonal overlap-hypo.br



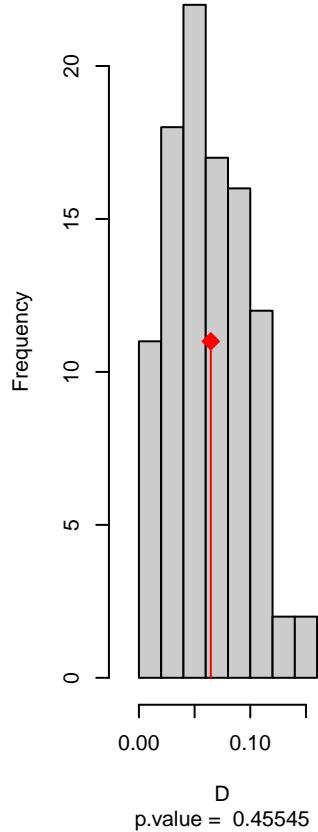
Equivalency



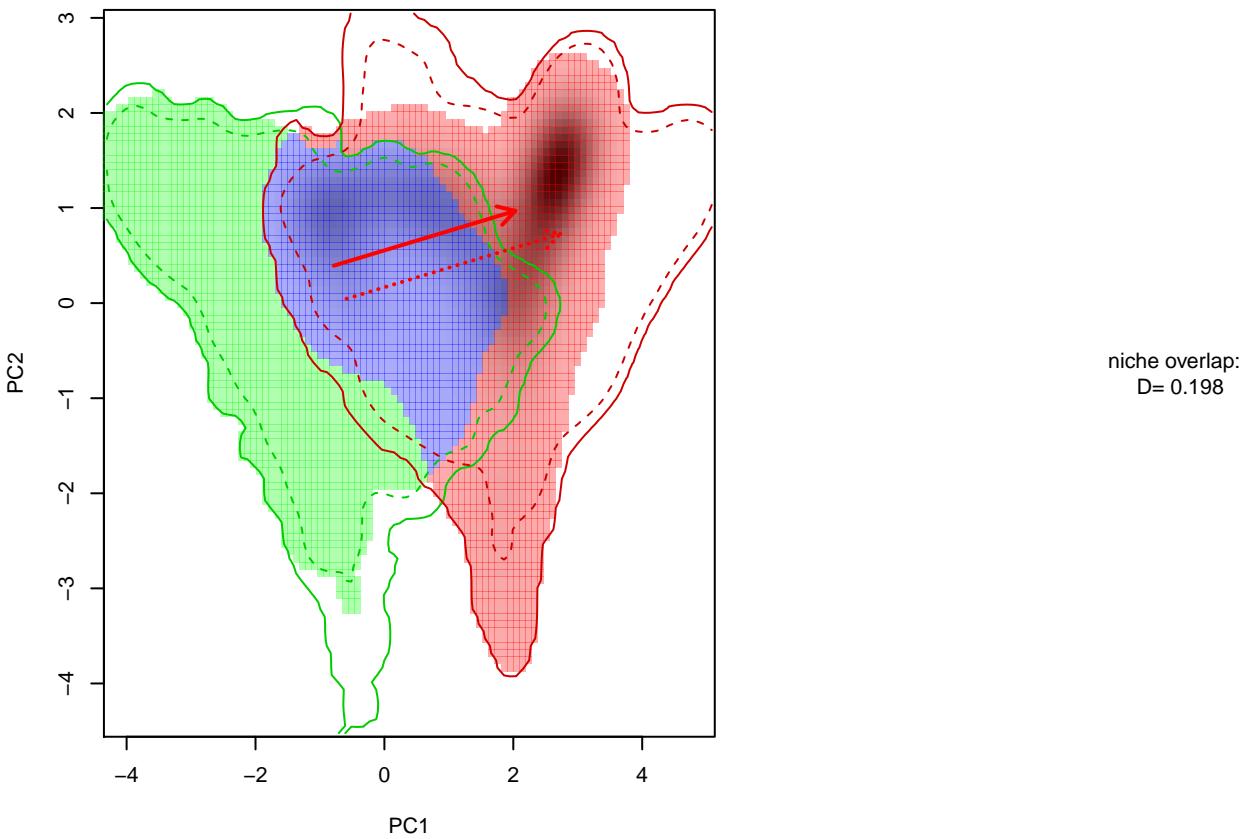
Similarity 2→1



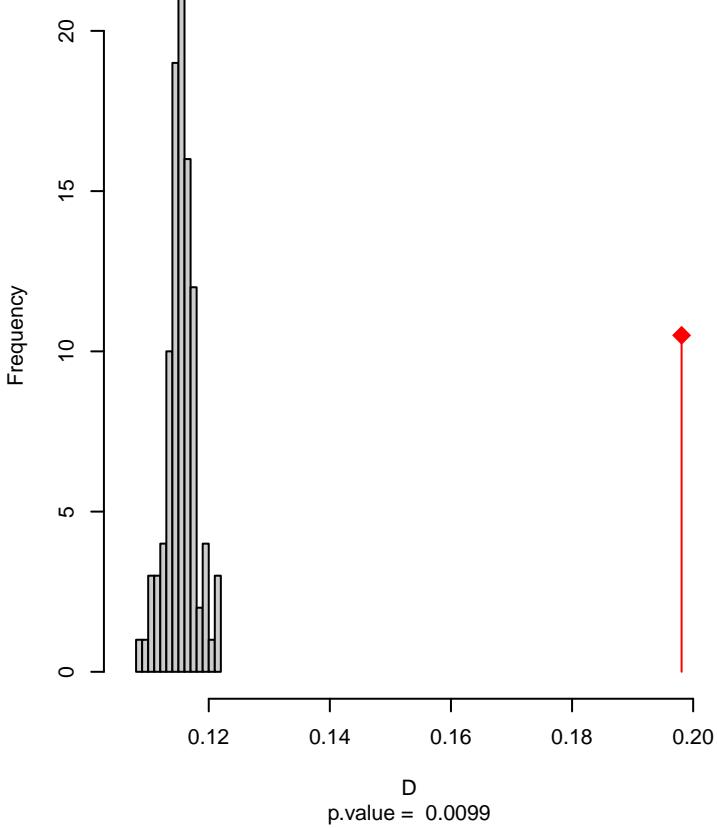
Similarity 1→2



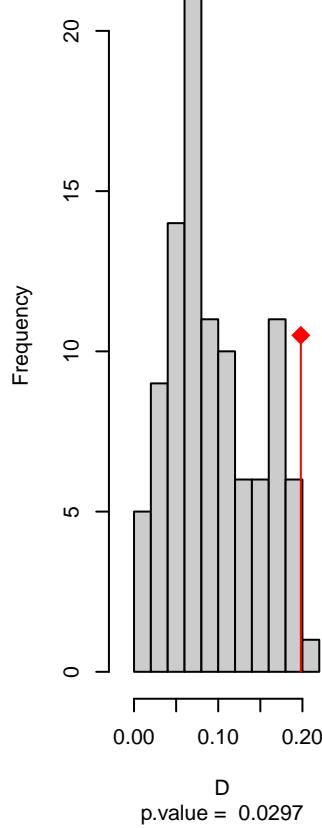
Tachycineta_thalassina seasonal overlap-hypo wi



Equivalency



Similarity 2→1



Similarity 1→2

