

Supplementary material: “Biogeographically Significant Units in conservation,
A new integrative concept for conserving ecological and evolutionary processes”

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Table S1: Accession number to each species and outgroups

Munroa argentina: KP091758 - KP091839; outgroup *M. andina*: KT273287

Thylamys pallidior: AY803297 - AY803318, HM583387, HM583392 - HM583412, KF164509 - KF164525, KP994534 - KP994536; outgroup *T. pallidior*: HM583387

Echinopsis terscheckii: MN128944, MN128945, MN123771, MN123772, MN123773, MN123774, MN123775, MN123776

Tillandsia capillaris: KU285401, KU285402, KU285408, KU285409, KU285410; outgroup: *T. virescens*: KU285354, KU285370

Hypsiboas andinus: EU403157, EU403173, EU403174, EU403189 - EU403192, EU403226, EU403254, EU403255, EU403264, EU403265, EU403274 - EU403277, EU403294, EU403295, EU403308, EU403309, EU403327 - EU403329, EU403333, EU403341, EU403342, EU403364, EU403365, EU403384, EU403385, EU403402 - EU403419; outgroup *H. andinus* from distant location: EU403151

Podocarpus parlatorei: JQ860351 - JQ860358; outgroup *P. salignus*: AY083104

Figures

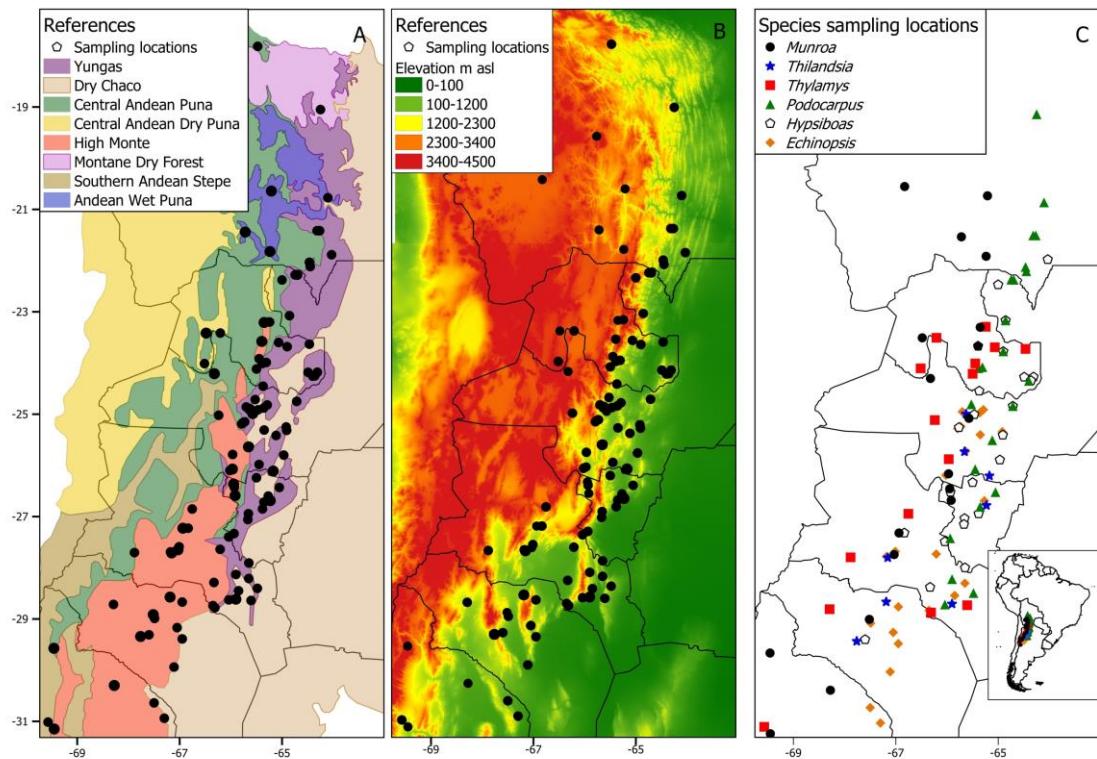


Figure S1: Location of populations of all species included in this study. A) Distribution across biomes, B) Elevation levels, and C) Species sampling locations.

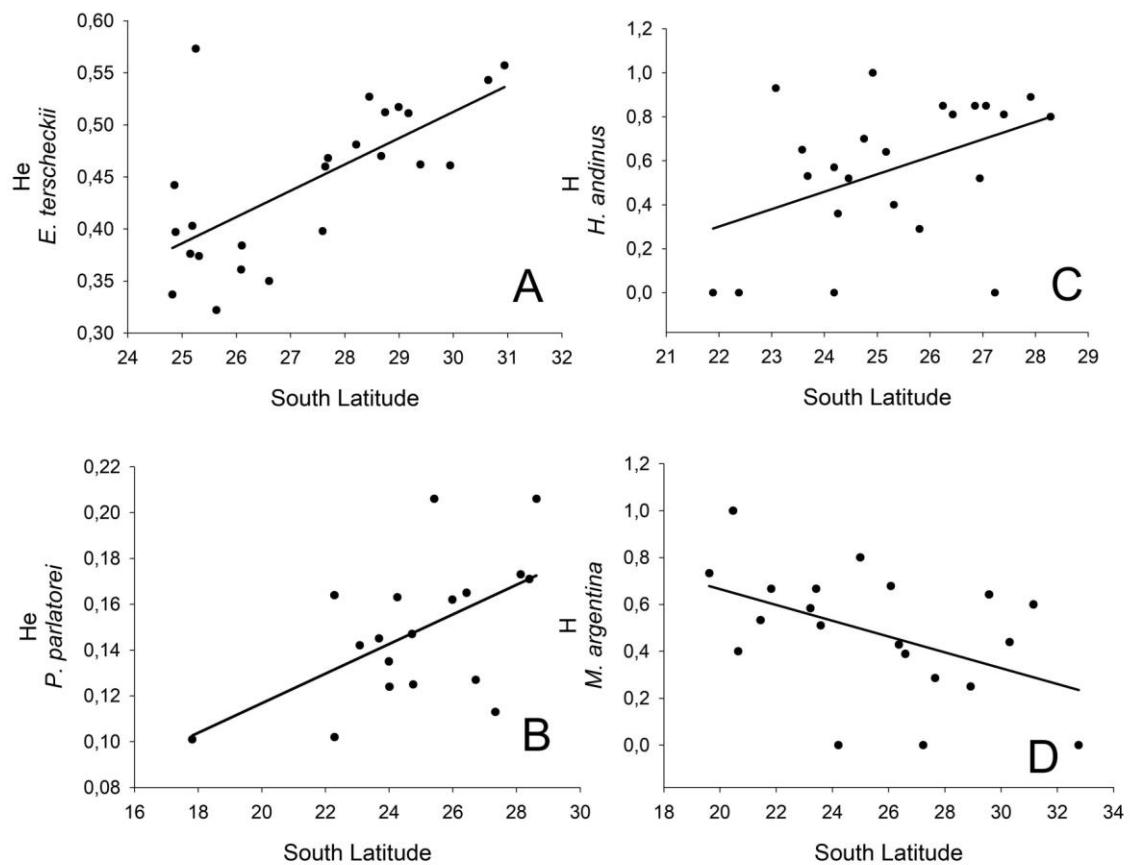


Figure S2: Regression analysis of measures of genetic diversity with latitude for species with population data. Expected heterosigosity (H_e) for A) *Echinopsis* and B) *Podocarpus*. Haplotype diversity (H) for C) *Hypsiboas* and D) *Munroa*.

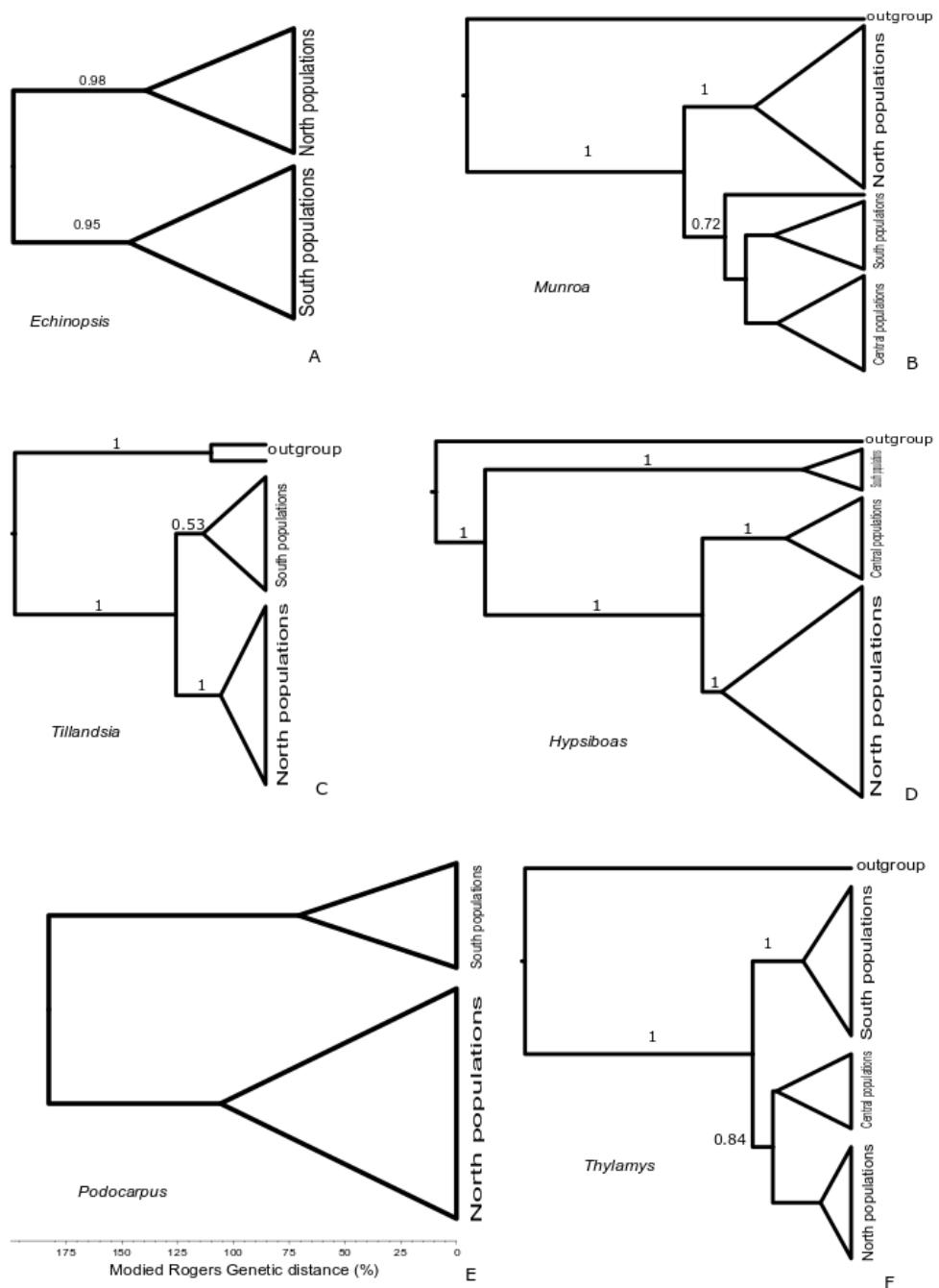


Figure S3: Collapsed phylogeny of haplotypes using Bayesian analysis for A) *Echinopsis*; B) *Munroa*; C) *Tillandsia*; D) *Hypsiboas*; and F) *Thylamys* and cluster analysis by Rogers' genetic distances for E) *Podocarpus*.