

Maquipucuna Reserve, Quito, Pichincha, ECUADOR

Plants of Maquipucuna Reserve visited by hummingbirds

Francisco Tobar^{1,4}, Holger Beck¹, María José Gavilanes¹, Tatiana Santander G.¹, Álvaro J. Pérez³, Edison Rea³, Daniela Cevallos³ & Catherine H. Graham²

¹Área de Investigación y Monitoreo de Avifauna, Aves y Conservación – BirdLife en Ecuador, ²Biodiversity and Conservation Biology Unit, Swiss Federal Research Institute WSL, ³Herbario QCA, Pontificia Universidad Católica del Ecuador, ⁴Herbario Nacional del Ecuador, Instituto Nacional de Biodiversidad

Photos: Francisco Tobar [pacotobar76@hotmail.com], Holger Beck, Andrés Marçayata, Aves y Conservación. Produced by the authors with the assistance of Rayane Ribeiro, Field Museum. Support: Swiss Federal Research Institute (WSL), National Geographic Society (Grant N° 9952-16), Swiss National Science Foundation (SNF Grant N° 173342), European Research Council Advanced Grants (ERC Grant N° 787638), Aves y Conservación/BirdLife in Ecuador, Rufford Foundation, and Maquipucuna Reserve. Legend: ♀ - female, ♂ - male.



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The Maquipucuna Reserve is one of the oldest and largest private reserves in Ecuador. The reserve is over 5670 hectares and ranges from 900 to almost 2800 meters above sea level. Due to its size and elevation range it harbors a wide range of ecosystems with an important variety of species. More than 400 birds and 40 mammals have been registered in the reserve. We have recorded to date, 20 species of hummingbirds in the reserve, as part of the Ecology of Plant Hummingbird Interaction Project (EPIH), which are using around 66 plant species. We thank the managers of the reserve, Rebeca Justicia, Rodrigo Ontaneda and the whole Maquipucuna staff for their conservation effort and the support for the EPIH project.



1 *Dicliptera scabra*
ACANTHACEAE



2 *Dicliptera scabra*
ACANTHACEAE



3 *Justicia secunda*
ACANTHACEAE



4 *Justicia secunda*
ACANTHACEAE



5 *Bomarea pardina*
ALSTROEMERACEAE



6 *Bomarea pardina*
ALSTROEMERACEAE



7 *Guzmania angustifolia*
BROMELIACEAE



8 *Guzmania danielii*
BROMELIACEAE



9 *Guzmania danielii*
BROMELIACEAE



10 *Guzmania dissitiflora*
BROMELIACEAE

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11 *Guzmania dissitiflora*
BROMELIACEAE



12 *Guzmania jaramilloi*
BROMELIACEAE



13 *Guzmania jaramilloi*
BROMELIACEAE



14 *Guzmania lehmanniana*
BROMELIACEAE



15 *Guzmania lehmanniana*
BROMELIACEAE



16 *Guzmania melinonis*
BROMELIACEAE



17 *Guzmania melinonis*
BROMELIACEAE



18 *Guzmania monostachia*
BROMELIACEAE



19 *Guzmania monostachia*
BROMELIACEAE



20 *Guzmania rhonhofiana*
BROMELIACEAE



21 *Guzmania rhonhofiana*
BROMELIACEAE



22 *Guzmania wittmackii*
BROMELIACEAE



23 *Guzmania wittmackii*
BROMELIACEAE



24 *Guzmania xanthobracteata*
BROMELIACEAE



25 *Guzmania xanthobracteata*
BROMELIACEAE



26 *Mezobromelia capituligera*
BROMELIACEAE



27 *Mezobromelia capituligera*
BROMELIACEAE



28 *Tillandsia complanata*
BROMELIACEAE



29 *Tillandsia complanata*
BROMELIACEAE



30 *Tillandsia cyanea*
BROMELIACEAE

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31 *Tillandsia cyanea*
BROMELIACEAE



32 *Burmeistera crispiloba*
CAMPANULACEAE



33 *Burmeistera crispiloba*
CAMPANULACEAE



34 *Burmeistera multiflora*
CAMPANULACEAE



35 *Burmeistera multiflora*
CAMPANULACEAE



36 *Centropogon nigricans*
CAMPANULACEAE



37 *Centropogon solanifolius*
CAMPANULACEAE



38 *Centropogon solanifolius*
CAMPANULACEAE



39 *Canna jaegeriana*
CANNACEAE



40 *Costus pulverulentus*
COSTACEAE



41 *Costus pulverulentus*
COSTACEAE



42 *Gurania macrophylla*
CUCURBITACEAE



43 *Gurania macrophylla*
CUCURBITACEAE



44 *Psiguria triphylla*
CUCURBITACEAE



45 *Psiguria triphylla*
CUCURBITACEAE



46 *Cavendishia grandifolia*
ERICACEAE



47 *Cavendishia grandifolia*
ERICACEAE



48 *Macleania bullata*
ERICACEAE



49 *Macleania bullata*
ERICACEAE



50 *Macleania ericae*
ERICACEAE

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51 *Macleania recumbens*
ERICACEAE



52 *Macleania recumbens*
ERICACEAE



53 *Psammisia aberrans*
ERICACEAE



54 *Psammisia aberrans*
ERICACEAE



55 *Psammisia oreogenes*
ERICACEAE



56 *Psammisia oreogenes*
ERICACEAE



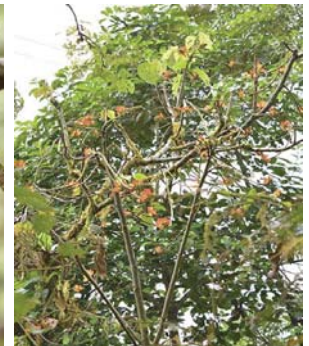
57 *Psammisia sodiroi*
ERICACEAE



58 *Psammisia ulbrichiana*
ERICACEAE



59 *Psammisia ulbrichiana*
ERICACEAE



60 *Erythrina megistophylla*
FABACEAE



61 *Erythrina megistophylla*
FABACEAE



62 *Macrocarpaea sodiroana*
GENTIANACEAE



63 *Macrocarpaea sodiroana*
GENTIANACEAE



64 *Besleria solanoides*
GESNERIACEAE



65 *Besleria solanoides*
GESNERIACEAE



76 *Columnea angulata*
GESNERIACEAE



77 *Columnea angulata*
GESNERIACEAE



66 *Columnea ciliata*
GESNERIACEAE



67 *Columnea ciliata*
GESNERIACEAE



68 *Columnea eburnea*
GESNERIACEAE

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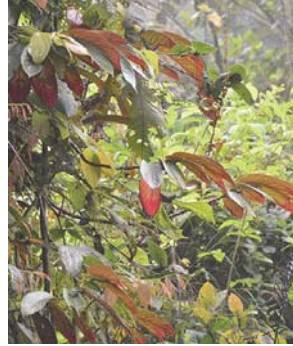
69 *Columnea eburnea*
GESNERIACEAE



70 *Columnea kucyniakii*
GESNERIACEAE



71 *Columnea kucyniakii*
GESNERIACEAE



72 *Columnea medicinalis*
GESNERIACEAE



73 *Columnea medicinalis*
GESNERIACEAE



74 *Columnea picta*
GESNERIACEAE



75 *Columnea picta*
GESNERIACEAE



78 *Diastema racemiferum*
GESNERIACEAE



79 *Diastema racemiferum*
GESNERIACEAE



80 *Drymonia brochidodroma*
GESNERIACEAE



81 *Drymonia brochidodroma*
GESNERIACEAE



82 *Drymonia collegarum*
GESNERIACEAE



83 *Drymonia collegarum*
GESNERIACEAE



84 *Drymonia tenuis*
GESNERIACEAE



84 *Gasteranthus pansamalanus*
GESNERIACEAE



86 *Gasteranthus quitensis*
GESNERIACEAE



87 *Gasteranthus quitensis*
GESNERIACEAE



88 *Glossoloma purpureum*
GESNERIACEAE



89 *Glossoloma purpureum*
GESNERIACEAE



90 *Kohleria spicata*
GESNERIACEAE

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91 *Kohleria villosa*
GESNERIACEAE



92 *Kohleria villosa*
GESNERIACEAE



93 *Kohleria villosa*
GESNERIACEAE



94 *Heliconia griggsiana*
HELICONIACEAE



95 *Heliconia impudica*
HELICONIACEAE



96 *Heliconia impudica*
HELICONIACEAE



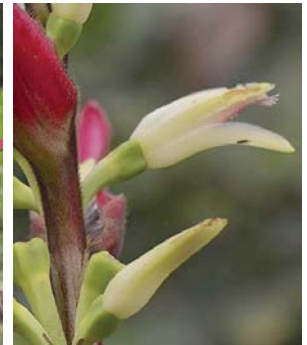
97 *Heliconia sclerotricha*
HELICONIACEAE



98 *Heliconia sclerotricha*
HELICONIACEAE



99 *Heliconia virginalis*
HELICONIACEAE



100 *Heliconia virginalis*
HELICONIACEAE



101 *Hydrangea peruviana*
HYDRANGEACEAE



102 *Hydrangea peruviana*
HYDRANGEACEAE



103 *Salvia scutellarioides*
LAMIACEAE



104 *Salvia scutellarioides*
LAMIACEAE



105 *Salvia tortuosa*
LAMIACEAE



106 *Salvia tortuosa*
LAMIACEAE



107 *Stachys lamioides*
LAMIACEAE



108 *Stachys lamioides*
LAMIACEAE



109 *Wercklea ferox*
MALVACEAE



110 *Wercklea ferox*
MALVACEAE

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111 *Stromanthe stromanthoides*
MARANTACEAE



112 *Stromanthe stromanthoides*
MARANTACEAE



113 *Sarcopera anomala*
MARCGRAVIACEAE



114 *Sarcopera anomala*
MARCGRAVIACEAE



115 *Sarcopera anomala*
MARCGRAVIACEAE



116 *Fuchsia macrostigma*
ONAGRACEAE



117 *Fuchsia macrostigma*
ONAGRACEAE



118 *Elleanthus arpophyllostachys*
ORCHIDACEAE



119 *Elleanthus arpophyllostachys*
ORCHIDACEAE



120 *Elleanthus capitatus*
ORCHIDACEAE



121 *Elleanthus capitatus*
ORCHIDACEAE



122 *Elleanthus discolor*
ORCHIDACEAE



123 *Elleanthus discolor*
ORCHIDACEAE



124 *Elleanthus robustus*
ORCHIDACEAE



125 *Elleanthus robustus*
ORCHIDACEAE



126 *Elleanthus smithii*
ORCHIDACEAE



127 *Elleanthus smithii*
ORCHIDACEAE



128 *Hoffmannia verticillata*
RUBIACEAE



129 *Hoffmannia verticillata*
RUBIACEAE



130 *Palicourea demissa*
RUBIACEAE

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131 *Palicourea demissa*
RUBIACEAE



132 *Palicourea sodiroi*
RUBIACEAE



133 *Palicourea sodiroi*
RUBIACEAE



134 *Brugmansia candida*
SOLANACEAE



135 *Cuatresia riparia*
SOLANACEAE



136 *Cuatresia riparia*
SOLANACEAE



137 *Renealmia dolichocalyx*
ZINGIBERACEAE



138 *Renealmia dolichocalyx*
ZINGIBERACEAE



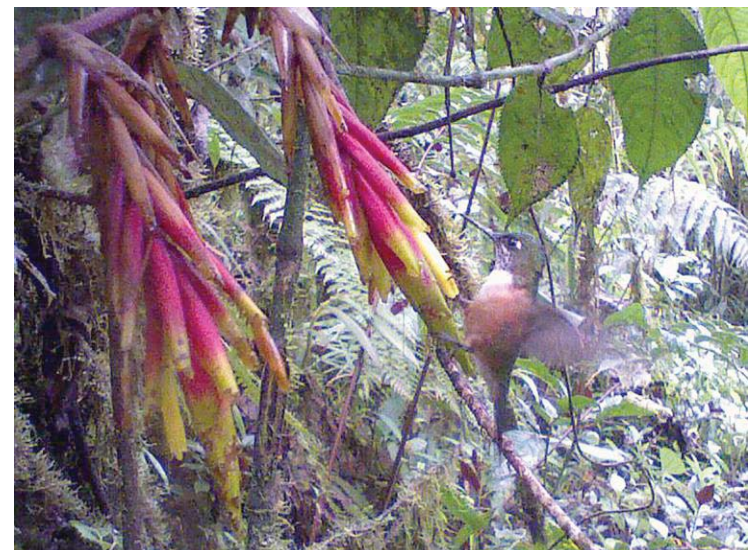
139 *Renealmia sessilifolia*
ZINGIBERACEAE



140 *Renealmia sessilifolia*
ZINGIBERACEAE



141 *Agelaiocercus coelestis* (♂)
TROCHILIDAE
Violet-tailed Sylph



142 *Agelaiocercus coelestis* (♀)
TROCHILIDAE
Violet-tailed Sylph

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149

Ocreatus underwoodii (♂)
TROCHILIDAE
Booted Racket-tail



150

Schistes albogularis
TROCHILIDAE
Chocó Daggerbill



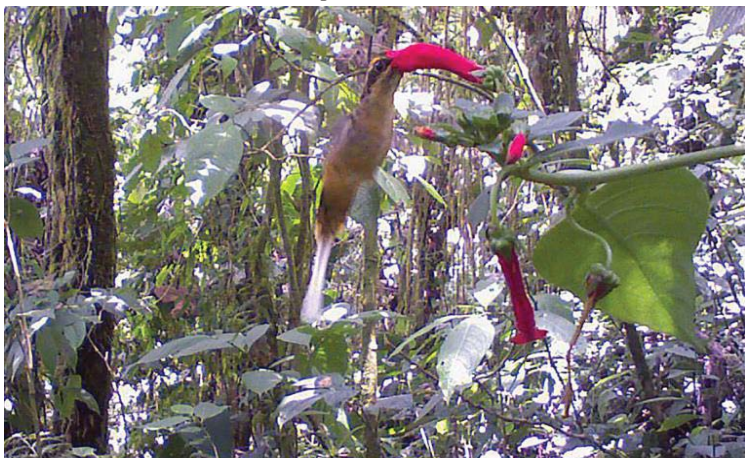
151

Phaethornis striigularis
TROCHILIDAE
Stripe-throated Hermit



152

Phaethornis syrmatorphorus
TROCHILIDAE
Tawny-bellied Hermit



153

Phaethornis syrmatorphorus
TROCHILIDAE
Tawny-bellied Hermit



154

Phaethornis yaruqui
TROCHILIDAE
White-whiskered Hermit

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Thalurania colombica (♀)
TROCHILIDAE
Crowned Woodnymph



156

Thalurania colombica (♂)
TROCHILIDAE
Crowned Woodnymph



157

Urosticte benjamini (♀)
TROCHILIDAE
Purple-bibbed Whitetip



158

Urosticte benjamini (♂)
TROCHILIDAE
Purple-bibbed Whitetip