

Un poco del Chocó Reserve, Quito, Pichincha, ECUADOR

Plants of Un poco del Chocó visited by hummingbirds

Francisco Tobar^{1,4}, Nicole Büttner⁵, Christian Montalvo⁵, María José Gavilanes¹, Esteban A. Guevara¹, Tatiana Santander G.¹, Cristian Poveda¹, Álvaro J. Pérez³, Daniela Cevallos³, Edison Rea³ & Catherine H. Graham²

¹BirdLife en Ecuador, ²Biodiversity and Conservation Biology Unit, Swiss Federal Research Institute, ³Herbario QCA, Pontificia Universidad Católica del Ecuador, ⁴Herbario Nacional del Ecuador, Instituto Nacional de Biodiversidad, &Un poco del Chocó Reserve & Biological Station ⁵

Photos by: Francisco Tobar [[pacotobar76@hotmail.com], Nicole Büttner, Christian Montalvo, Andrés Marcaty, Friederike Richter, Wilo Vaca, and Aves y Conservación
Produced by authors. Acknowledgment: 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 Un Poco del Choco Reserve. Legend: ♀ - female, and ♂ - male.

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Un poco del Chocó is located on the northwestern slope of the Ecuadorian Andes in the Chocó ecoregion at an elevation between 950 and 1200 meters above sea level. The reserve protects 15 hectares of lower montane rainforest and is home to over 285 bird species, including many Chocó-endemics, like the rare and endangered *Neomorphus radiolosus* (Banded Ground-Cuckoo). As part of the Ecology of Plant Hummingbird Interactions Project (EPHI), 23 different species of hummingbirds have been observed foraging on over 90 different plant species in the reserve and the surrounding fragmented landscape. These hummingbird-plant interactions often result in pollination, thereby providing an important ecosystem service. Highlighting the reserve's importance in local and regional biodiversity conservation, it has a particularly high diversity in bromeliad and gesneroid species, some of which are endemic, rare and/or threatened. In this guide, we present photos of plant species visited by hummingbirds. We thank Wilo Vaca, Leo Montalvo and the many interns of Un poco del Chocó for their collaboration and assistance.



1 *Aphelandra pepe-parodii*
ACANTHACEAE



2 *Aphelandra pepe-parodii*
ACANTHACEAE



3 *Dicliptera scabra*
ACANTHACEAE



4 *Dicliptera scabra*
ACANTHACEAE



5 *Justicia secunda*
ACANTHACEAE



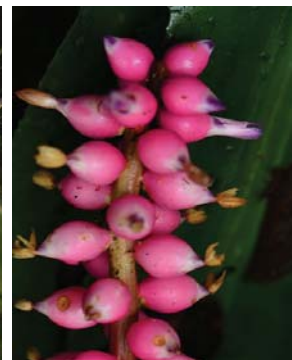
6 *Bomarea pardina*
ALSTROEMERIACEAE



7 *Bomarea pardina*
ALSTROEMERIACEAE



8 *Aechmea aciculosa*
BROMELIACEAE



9 *Aechmea aciculosa*
BROMELIACEAE



10 *Chevaliera magdalenae*
BROMELIACEAE

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11 *Guzmania alborosea*
BROMELIACEAE



12 *Guzmania alborosea*
BROMELIACEAE



13 *Guzmania amplexens*
BROMELIACEAE



14 *Guzmania amplexens*
BROMELIACEAE



15 *Guzmania angustifolia*
BROMELIACEAE



16 *Guzmania angustifolia*
BROMELIACEAE



17 *Guzmania danielii*
BROMELIACEAE



18 *Guzmania eduardi*
BROMELIACEAE



19 *Guzmania eduardi*
BROMELIACEAE



20 *Guzmania glomerata*
BROMELIACEAE



21 *Guzmania glomerata*
BROMELIACEAE



22 *Guzmania harlingii*
BROMELIACEAE



23 *Guzmania harlingii*
BROMELIACEAE



24 *Guzmania monostachia*
BROMELIACEAE



25 *Guzmania reymyi*
BROMELIACEAE



26 *Guzmania scherzeriana*
BROMELIACEAE



27 *Guzmania scherzeriana*
BROMELIACEAE



28 *Guzmania spectabilis*
BROMELIACEAE



29 *Guzmania spectabilis*
BROMELIACEAE



30 *Guzmania spectabilis*
BROMELIACEAE

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31 *Guzmania teuscheri*
BROMELIACEAE



32 *Guzmania teuscheri*
BROMELIACEAE



33 *Guzmania teuscheri*
BROMELIACEAE



34 *Guzmania wittmackii*
BROMELIACEAE



35 *Guzmania wittmackii*
BROMELIACEAE



36 *Guzmania xanthobracteata*
BROMELIACEAE



37 *Guzmania xanthobracteata*
BROMELIACEAE



38 *Mezobromelia capituligera*
BROMELIACEAE



39 *Pitcairnia barrigae*
BROMELIACEAE



40 *Pitcairnia elliptica*
BROMELIACEAE



41 *Pitcairnia elliptica*
BROMELIACEAE



42 *Pitcairnia nigra*
BROMELIACEAE



43 *Pitcairnia nigra*
BROMELIACEAE



44 *Pitcairnia stevensonii*
BROMELIACEAE



45 *Pitcairnia stevensonii*
BROMELIACEAE



46 *Tillandsia acosta-solisii*
BROMELIACEAE



47 *Tillandsia acosta-solisii*
BROMELIACEAE



48 *Tillandsia cyanea*
BROMELIACEAE



49 *Tillandsia cyanea*
BROMELIACEAE



50 *Tillandsia venusta*
BROMELIACEAE

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51 *Tillandsia venusta*
BROMELIACEAE



52 *Canna jaegeriana*
CANNACEAE



53 *Costus pulverulentus*
COSTACEAE



54 *Costus pulverulentus*
COSTACEAE



55 *Gurania lobata*
CUCURBITACEAE



56 *Cavendishia grandifolia*
ERICACEAE



57 *Cavendishia grandifolia*
ERICACEAE



58 *Cavendishia tarapotana*
ERICACEAE



59 *Cavendishia tarapotana*
ERICACEAE



60 *Disterigma cryptocalyx*
ERICACEAE



61 *Macleania pentaptera*
ERICACEAE



62 *Macleania pentaptera*
ERICACEAE



63 *Macleania recumbens*
ERICACEAE



64 *Psammisia aberrans*
ERICACEAE



65 *Psammisia aberrans*
ERICACEAE



66 *Psammisia pauciflora*
ERICACEAE



67 *Psammisia pauciflora*
ERICACEAE



68 *Psammisia sodiroi*
ERICACEAE



69 *Psammisia sodiroi*
ERICACEAE



70 *Psammisia ulbrichiana*
ERICACEAE

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71 *Sphyrsopermum buxifolium*
ERICACEAE



72 *Sphyrsopermum buxifolium*
ERICACEAE



73 *Sphyrsopermum buxifolium*
ERICACEAE



74 *Erythrina smithiana*
FABACEAE



75 *Mucuna rostrata*
FABACEAE



76 *Besleria solanoides*
GESNERIACEAE



77 *Besleria tambensis*
GESNERIACEAE



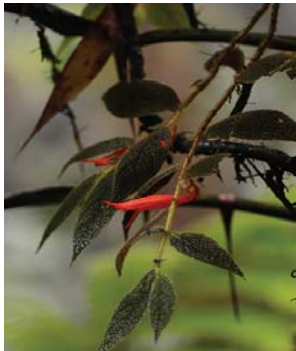
78 *Columnea angustata*
GESNERIACEAE



79 *Columnea eburnea*
GESNERIACEAE



80 *Columnea eburnea*
GESNERIACEAE



81 *Columnea ferruginea*
GESNERIACEAE



82 *Columnea ferruginea*
GESNERIACEAE



83 *Columnea medicinalis*
GESNERIACEAE



84 *Columnea minor*
GESNERIACEAE



85 *Columnea minor*
GESNERIACEAE



86 *Columnea picta*
GESNERIACEAE



87 *Columnea rubriacuta*
GESNERIACEAE



88 *Columnea rubriacuta*
GESNERIACEAE



89 *Columnea spathulata*
GESNERIACEAE



90 *Columnea spathulata*
GESNERIACEAE

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91 *Diastema hispidum*
GESNERIACEAE



92 *Diastema hispidum*
GESNERIACEAE



93 *Diastema scabrum*
GESNERIACEAE



94 *Drymonia chiribogana*
GESNERIACEAE



95 *Drymonia chiribogana*
GESNERIACEAE



96 *Drymonia dodsonii*
GESNERIACEAE



97 *Drymonia dodsonii*
GESNERIACEAE



98 *Drymonia macrophylla*
GESNERIACEAE



99 *Drymonia macrophylla*
GESNERIACEAE



100 *Drymonia serrulata*
GESNERIACEAE



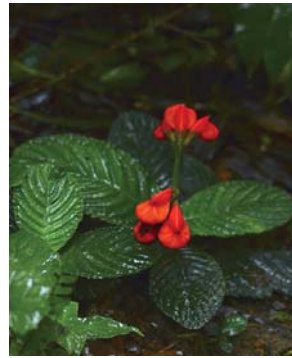
101 *Drymonia teuscheri*
GESNERIACEAE



102 *Drymonia teuscheri*
GESNERIACEAE



103 *Drymonia turrialvae*
GESNERIACEAE



104 *Gasteranthus crispus*
GESNERIACEAE



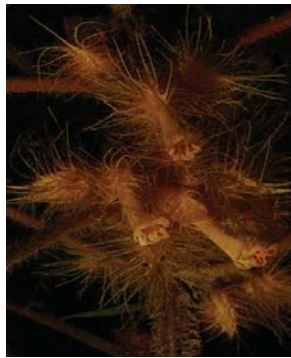
105 *Gasteranthus crispus*
GESNERIACEAE



106 *Gasteranthus quitensis*
GESNERIACEAE



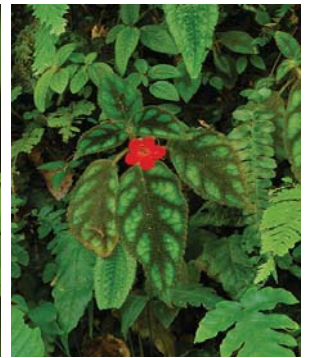
107 *Gasteranthus quitensis*
GESNERIACEAE



108 *Glossoloma sprucei*
GESNERIACEAE



109 *Kohleria spicata*
GESNERIACEAE



110 *Kohleria villosa*
GESNERIACEAE

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111 *Monopyle macrocarpa*
GESNERIACEAE



112 *Monopyle macrocarpa*
GESNERIACEAE



113 *Trichodrymonia splendens*
GESNERIACEAE



114 *Heliconia harlingii*
HELICONIACEAE



115 *Heliconia latispatha*
HELICONIACEAE



116 *Heliconia sclerotricha*
HELICONIACEAE



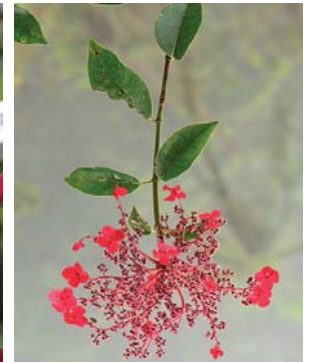
117 *Heliconia sclerotricha*
HELICONIACEAE



118 *Heliconia stricta*
HELICONIACEAE



119 *Heliconia virginialis*
HELICONIACEAE



120 *Hydrangea preslii*
HYDRANGEACEAE



121 *Hydrangea preslii*
HYDRANGEACEAE



122 *Hydrangea preslii*
HYDRANGEACEAE



123 *Cuphea ignea*
LYTHRACEAE



124 *Matisia castano*
MALVACEAE



125 *Spirotheca rimbachii*
MALVACEAE



126 *Urena lobata*
MALVACEAE



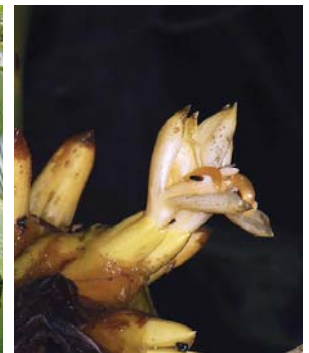
127 *Calathea crotalifera*
MARANTACEAE



128 *Calathea crotalifera*
MARANTACEAE



129 *Calathea marantifolia*
MARANTACEAE



130 *Calathea marantifolia*
MARANTACEAE

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131 *Fuchsia macrostigma*
ONAGRACEAE



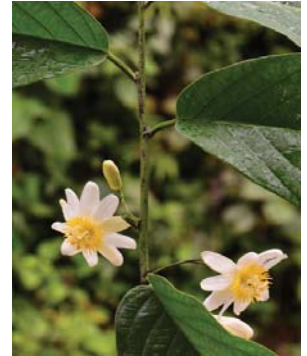
132 *Fuchsia macrostigma*
ONAGRACEAE



133 *Elleanthus arpophyllostachys*
ORCHIDACEAE



134 *Elleanthus arpophyllostachys*
ORCHIDACEAE



135 *Passiflora cf. arborea*
PASSIFLORACEAE



136 *Passiflora cf. arborea*
PASSIFLORACEAE



137 *Arachnothryx perezii*
RUBIACEAE



138 *Hillia macrophylla*
RUBIACEAE



139 *Hoffmannia killipii*
RUBIACEAE



140 *Hoffmannia killipii*
RUBIACEAE



141 *Palicourea asplundii*
RUBIACEAE



142 *Palicourea asplundii*
RUBIACEAE



143 *Palicourea demissa*
RUBIACEAE



144 *Palicourea demissa*
RUBIACEAE



145 *Palicourea guianensis*
RUBIACEAE



146 *Palicourea guianensis*
RUBIACEAE



147 *Palicourea sodiroi*
RUBIACEAE



148 *Palicourea sodiroi*
RUBIACEAE



149 *Psychotria* sp.
RUBIACEAE



150 *Psychotria* sp.
RUBIACEAE

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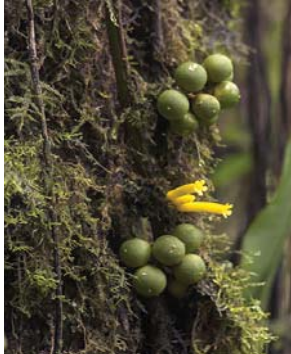
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151 *Schlegelia sulphurea*
SCHLEGELIACEAE



152 *Schlegelia sulphurea*
SCHLEGELIACEAE



153 *Cestrum megalophyllum*
SOLANACEAE



154 *Cestrum megalophyllum*
SOLANACEAE



155 *Tropaeolum adpressum*
TROPAEOLACEAE



156 *Tropaeolum adpressum*
TROPAEOLACEAE



157 *Renealmia sessilifolia*
ZINGIBERACEAE



158 *Renealmia sessilifolia*
ZINGIBERACEAE



159 *Renealmia thyrsoides*
ZINGIBERACEAE



160 *Renealmia* sp.
ZINGIBERACEAE



161 *Aglaiocercus coelestis* ♀
TROCHILIDAE
Violet-tailed Sylph



162 *Amazilia tzacatl*
TROCHILIDAE
Rufous-tailed Hummingbird

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Photos by: Francisco Tobar [[pacotobar76@hotmail.com], Nicole Büttner, Christian Montalvo, Andrés Marcatayata, Friederike Richter, Wilo Vaca, and Aves y Conservación Produced by authors. Acknowledgment: 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 Un Poco del Choco Reserve. Legend: ♀ - female, and ♂ - male.



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163
Coeligena wilsoni
TROCHILIDAE
Brown Inca



164
Coeligena wilsoni
TROCHILIDAE
Brown Inca



165
Colibri coruscans
TROCHILIDAE
Sparkling Violetear



166
Discosura conversii ♂
TROCHILIDAE
Green Thorntail



167
Doryfera ludovicae
TROCHILIDAE
Green-fronted Lancebill



168
Eutoxeres aquila
TROCHILIDAE
White-tipped Sicklebill

Un poco del Chocó Reserve, Quito, Pichincha, ECUADOR

Plants of Un poco del Chocó visited by hummingbirds

Francisco Tobar^{1,4}, Nicole Büttner⁵, Christian Montalvo⁵, María José Gavilanes¹, Esteban A. Guevara¹, Tatiana Santander G.¹, Cristian Poveda¹, Álvaro J. Pérez³, Daniela Cevallos³, Edison Rea³ & Catherine H. Graham²

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169 *Florisuga mellivora* ♀
TROCHILIDAE
White-necked Jacobin



170 *Heliodoxa jacula* ♀
TROCHILIDAE
Green-crowned Brilliant



171 *Heliodoxa jacula* ♀
TROCHILIDAE
Green-crowned Brilliant



172 *Heliodoxa jacula* ♂
TROCHILIDAE
Green-crowned Brilliant



173 *Heliothryx barroti*
TROCHILIDAE
Purple-crowned Fairy



174 *Ocreatus underwoodii* ♀
TROCHILIDAE
Booted Racket-tail

Un poco del Chocó Reserve, Quito, Pichincha, ECUADOR

Plants of Un poco del Chocó visited by hummingbirds

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Francisco Tobar^{1,4}, Nicole Büttner⁵, Christian Montalvo⁵, María José Gavilanes¹, Esteban A. Guevara¹, Tatiana Santander G.¹, Cristian Poveda¹, Álvaro J. Pérez³, Daniela Cevallos³, Edison Rea³ & Catherine H. Graham²

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169 *Ocreatus underwoodii* ♂
TROCHILIDAE
Booted Racket-tail



170 *Phaethornis striigularis*
TROCHILIDAE
Stripe-throated Hermit



171 *Phaethornis yaruqui*
TROCHILIDAE
White-whiskered Hermit



172 *Schistes albogularis*
TROCHILIDAE
Choco Daggerbill



179 *Thalurania colombica* ♂
TROCHILIDAE
Crowned Woodnymph



180 *Urostroke benjamini*
TROCHILIDAE
Purple-bibbed Whitetip