

Quito, Pichincha, Ecuador

Plants of Alaspungo Reserve visited by hummingbirds

Francisco Tobar^{1,4}, María José Gavilanes¹, Cristian Poveda¹, Esteban A. Guevara^{1,2}, Tatiana Santander G.¹, Andrés Marcapata¹, Álvaro J. Pérez³, Daniela Cevallos³, Edison Rea³, Bryan Rojas¹ & Catherine H. Graham²

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Photos: Francisco Tobar, Andrés Marcapata, and Cristian Poveda. Produced by Francisco Tobar [pacotobar76@hotmail.com] Support from Swiss Federal Research Institute (WSL), National Geographic, Swiss National Science Foundation (SNF), European Research Council Advanced Grants (ERC), Aves y Conservación/BirdLife in Ecuador, Rufford Foundation, and Alaspungo Community.



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The community forest of Alaspungo belongs to Nono parish, in the Pichincha province, and encompasses around 600 ha of high montane forest. The surrounding forest ranges in altitude between 2700 to 3000 meters above sea level. In Alaspungo, 11 species of hummingbirds have been recorded and these forage on 79 plant species according to the results of the Ecology of Plant Hummingbird Interactions Project (EPHI).

The forest is home to several endemic, rare, and threatened species, including the endangered hummingbird *Eriocnemis nigrivestis* (Black-breasted Puffleg), that has been historically recorded in this location and captured in our cameras. Alaspungo forest is essential to local and regional biodiversity conservation. In this guide, we present photos of plant species visited by hummingbirds. This work was possible thanks to the community of Alaspungo that gave us access to the forest, and Roberto Paillacho for his collaboration and assistance.



1 *Aphelandra acanthus*
ACANTHACEAE



2 *Aphelandra acanthus*
ACANTHACEAE



3 *Bomarea hirsuta*
ALSTROEMERIACEAE



4 *Bomarea multiflora*
ALSTROEMERIACEAE



5 *Bomarea multiflora*
ALSTROEMERIACEAE



6 *Bomarea patacocensis*
ALSTROEMERIACEAE



7 *Bomarea patacocensis*
ALSTROEMERIACEAE



8 *Barnadesia spinosa*
ASTERACEAE



9 *Barnadesia spinosa*
ASTERACEAE



10 *Guzmania danielii*
BROMELIACEAE

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11 *Guzmania danielii*
BROMELIACEAE



12 *Guzmania danielii*
BROMELIACEAE



13 *Guzmania squarrosa*
BROMELIACEAE



14 *Guzmania squarrosa*
BROMELIACEAE



15 *Pitcairnia fusca*
BROMELIACEAE



16 *Pitcairnia fusca*
BROMELIACEAE



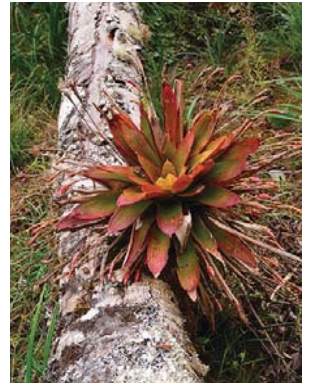
17 *Racinaea tetrantha*
BROMELIACEAE



18 *Racinaea tetrantha*
BROMELIACEAE



19 *Racinaea tetrantha*
BROMELIACEAE



20 *Tillandsia complanata*
BROMELIACEAE



21 *Tillandsia complanata*
BROMELIACEAE



22 *Tillandsia polyantha*
BROMELIACEAE



23 *Tillandsia polyantha*
BROMELIACEAE



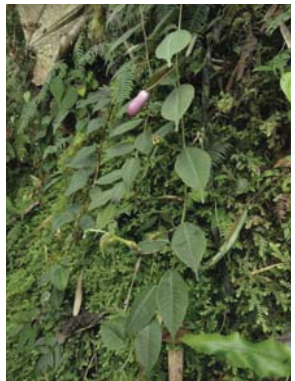
24 *Brunellia acostae*
BRUNELLIACEAE



25 *Burmeistera glabrata*
CAMPANULACEAE



26 *Burmeistera glabrata*
CAMPANULACEAE



27 *Burmeistera resupinata*
CAMPANULACEAE



28 *Burmeistera resupinata*
CAMPANULACEAE



29 *Burmeistera sodiroana*
CAMPANULACEAE



30 *Burmeistera sodiroana*
CAMPANULACEAE

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31 *Burmeistera succulenta*
CAMPANULACEAE



32 *Burmeistera succulenta*
CAMPANULACEAE



33 *Centropogon brachysiphoniatus*
CAMPANULACEAE



34 *Centropogon brachysiphoniatus*
CAMPANULACEAE



35 *Centropogon brachysiphoniatus*
CAMPANULACEAE



36 *Centropogon calycinus*
CAMPANULACEAE



37 *Centropogon calycinus*
CAMPANULACEAE



38 *Centropogon glabrifilis*
CAMPANULACEAE



39 *Centropogon glabrifilis*
CAMPANULACEAE



40 *Centropogon nigricans*
CAMPANULACEAE



41 *Centropogon nigricans*
CAMPANULACEAE



42 *Centropogon* sp. 1
CAMPANULACEAE



43 *Centropogon* sp. 1
CAMPANULACEAE



44 *Siphocampylus giganteus*
CAMPANULACEAE



45 *Siphocampylus giganteus*
CAMPANULACEAE



46 *Cleome anomala*
CLEOMACEAE



47 *Cleome anomala*
CLEOMACEAE



48 *Cleome anomala*
CLEOMACEAE



49 *Cavendishia bracteata*
ERICACEAE



50 *Cavendishia bracteata*
ERICACEAE

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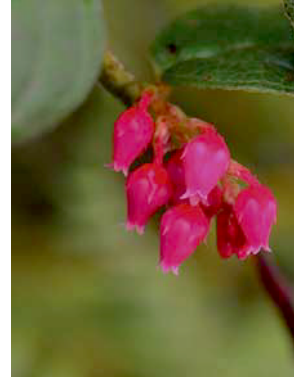
51 *Disterigma noyesiae*
ERICACEAE



52 *Disterigma noyesiae*
ERICACEAE



53 *Gaultheria insipida*
ERICACEAE



54 *Gaultheria insipida*
ERICACEAE



55 *Macleania loeseneriana*
ERICACEAE



56 *Macleania loeseneriana*
ERICACEAE



57 *Macleania macrantha*
ERICACEAE



58 *Macleania macrantha*
ERICACEAE



59 *Pernettya prostrata*
ERICACEAE



60 *Pernettya prostrata*
ERICACEAE



61 *Psammisia aurantiaca*
ERICACEAE



62 *Psammisia aurantiaca*
ERICACEAE



63 *Psammisia oreogenes*
ERICACEAE



64 *Psammisia sodiroi*
ERICACEAE



65 *Psammisia sodiroi*
ERICACEAE



66 *Psammisia ulbrichiana*
ERICACEAE



67 *Psammisia ulbrichiana*
ERICACEAE



68 *Sphyrropermum grandifolium*
ERICACEAE



69 *Sphyrropermum grandifolium*
ERICACEAE



70 *Themistoclesia dependens*
ERICACEAE

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71 *Themistoclesia dependens*
ERICACEAE



72 *Thibaudia floribunda*
ERICACEAE



73 *Thibaudia floribunda*
ERICACEAE



74 *Macrocarpaea gattaca*
GENTIANACEAE



75 *Macrocarpaea gattaca*
GENTIANACEAE



76 *Besleria solanoides*
GESNERIACEAE



77 *Besleria solanoides*
GESNERIACEAE



78 *Columnnea strigosa*
GESNERIACEAE



79 *Columnnea strigosa*
GESNERIACEAE



80 *Drymonia* sp. 1
GESNERIACEAE



81 *Drymonia* sp. 1
GESNERIACEAE



82 *Drymonia* sp. 1
GESNERIACEAE



83 *Gasteranthus pansamalanus*
GESNERIACEAE



84 *Gasteranthus pansamalanus*
GESNERIACEAE



85 *Glossoloma herthae*
GESNERIACEAE



86 *Glossoloma herthae*
GESNERIACEAE



87 *Glossoloma ichthyoderma*
GESNERIACEAE



88 *Glossoloma ichthyoderma*
GESNERIACEAE



89 *Glossoloma ichthyoderma*
GESNERIACEAE



90 *Glossoloma* sp. 1
GESNERIACEAE

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91 *Glossoloma* sp. 1
GESNERIACEAE



92 *Heppiella repens*
GESNERIACEAE



93 *Heppiella repens*
GESNERIACEAE



94 *Heppiella repens*
GESNERIACEAE



95 *Heppiella ulmifolia*
GESNERIACEAE



96 *Heppiella ulmifolia*
GESNERIACEAE



97 *Kohleria affinis*
GESNERIACEAE



98 *Kohleria affinis*
GESNERIACEAE



99 *Kohleria affinis*
GESNERIACEAE



100 *Salvia pauciserrata*
LAMIACEAE



101 *Salvia pauciserrata*
LAMIACEAE



102 *Salvia pichinchensis*
LAMIACEAE



103 *Salvia* sp. 1
LAMIACEAE



104 *Salvia* sp. 1
LAMIACEAE



105 *Blakea* sp. 1
MELASTOMATACEAE



106 *Blakea* sp. 1
MELASTOMATACEAE



107 *Blakea* sp. 1
MELASTOMATACEAE



108 *Brachyotum ledifolium*
MELASTOMATACEAE



109 *Brachyotum ledifolium*
MELASTOMATACEAE



110 *Miconia hymenanthera*
MELASTOMATACEAE

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111 *Miconia hymenanthera*
MELASTOMATACEAE



112 *Fuchsia ayavacensis*
ONAGRACEAE



113 *Fuchsia magellanica*
ONAGRACEAE



114 *Fuchsia magellanica*
ONAGRACEAE



115 *Fuchsia sessilifolia*
ONAGRACEAE



116 *Fuchsia sessilifolia*
ONAGRACEAE



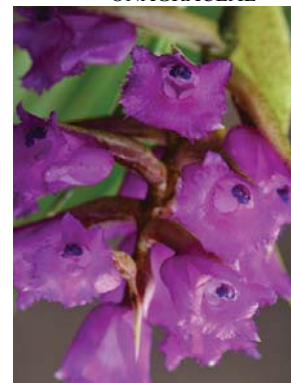
117 *Fuchsia sylvatica*
ONAGRACEAE



118 *Fuchsia sylvatica*
ONAGRACEAE



119 *Elleanthus aurantiacus*
ORCHIDACEAE



120 *Elleanthus gracilis*
ORCHIDACEAE



121 *Epidendrum mesogastropodium*
ORCHIDACEAE



122 *Passiflora coactilis*
PASSIFLORACEAE



123 *Passiflora cumbalensis*
PASSIFLORACEAE



124 *Passiflora cumbalensis*
PASSIFLORACEAE



125 *Passiflora sodiroi*
PASSIFLORACEAE



126 *Cobaea trianae*
POLEMONIACEAE



127 *Rubus roseus*
ROSACEAE



128 *Guettarda hirsuta*
RUBIACEAE



129 *Guettarda hirsuta*
RUBIACEAE



130 *Manettia trianae*
RUBIACEAE

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131 *Palicourea amethystina*
RUBIACEAE



132 *Palicourea calothyrsus*
RUBIACEAE



133 *Palicourea calothyrsus*
RUBIACEAE



134 *Brugmansia candida*
SOLANACEAE



135 *Cestrum peruvianum*
SOLANACEAE



136 *Cestrum peruvianum*
SOLANACEAE



137 *Nicotiana tabacum*
SOLANACEAE



138 *Sessea vestita*
SOLANACEAE



139 *Tropaeolum adpressum*
TROPAEOLACEAE



140 *Aegiphila monticola*
VERBENACEAE



141 *Adelomyia melanogenys*
TROCHILIDAE
Speckled Hummingbird



142 *Coeligena lutetiae*
TROCHILIDAE
Buff-winged Starfrontlet

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143 *Coeligena torquata* ♂
TROCHILIDAE
Collared Inca



144. *Eriocnemis nigrivestis* ♀
TROCHILIDAE
Black-breasted Puffleg



145 *Eriocnemis nigrivestis* ♀
TROCHILIDAE
Black-breasted Puffleg



146 *Heliangelus strophianus*
TROCHILIDAE
Gorgeted Sunangel



147 *Lafresnaya lafresnayi*
TROCHILIDAE
Mountain Velvetbreast



148 *Metallura tyrianthina* ♀
TROCHILIDAE
Tyrian Metaltail