

# Yanachaga-Chemillén National Park , Pasco, PERU

## Butterflies of Paujil sector

Yeison Vega-G<sup>1,2,3</sup> & Pamela Vásquez<sup>4</sup>

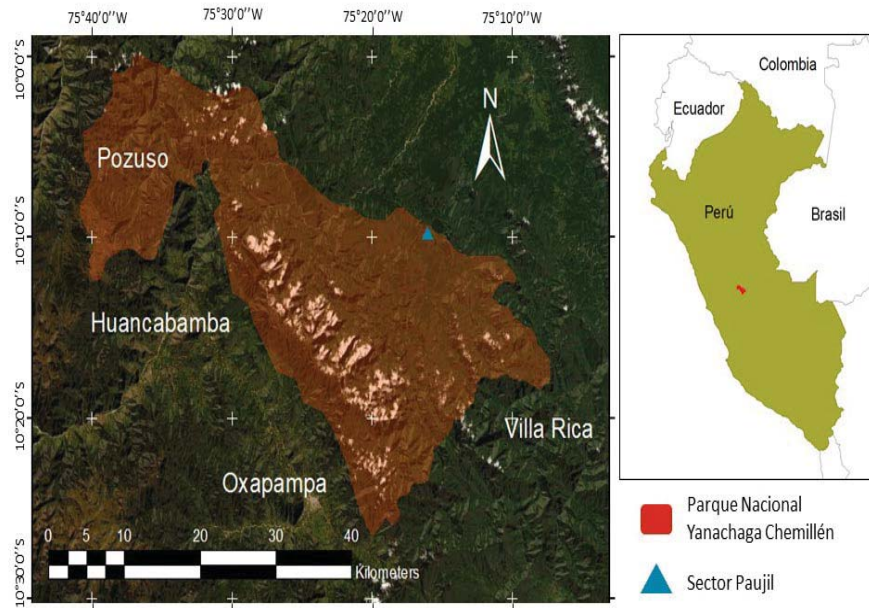
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Yanachaga-Chemillén National Park (PNYCh) is located in the department of Pasco, Peru. This guide is based on studies carried out in the park’s Paujil sector. This is a tropical humid forest located between 300 and 800 meters above sea level, with mean temperatures of 25°C and a rainy season from November to April. Because butterflies are sensitive to changes in habitat, they are commonly considered good bioindicators, thus becoming ideal organisms for numerous ecological studies. For example, butterflies have been extensively studied to understand fragmentation, edge effects, and comparisons between habitats with different level of disturbance, as well as in monitoring programs. The study of butterflies is very important for PNYCh because it offers great potential for monitoring and evaluating conservation status of the protected area, and consequently providing relevant information for conservation plans and strategies.



1 *Gorgythion* sp. (D)  
HESPERIIDAE



2 *Gorgythion* sp. (V)  
HESPERIIDAE



3 *Hyalothyrs neleus neleus* (D)  
HESPERIIDAE



4 *Hyalothyrs neleus neleus* (V)  
HESPERIIDAE



5 *Jemadia fallax* (D)  
HESPERIIDAE



6 *Jemadia fallax* (V)  
HESPERIIDAE



7 *Myrinia* sp. (D)  
HESPERIIDAE



8 *Myrinia* sp. (V)  
HESPERIIDAE


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9 *Phareas coeleste* (D)  
HESPERIIDAE



10 *Phareas coeleste* (V)  
HESPERIIDAE



11 *Phocides metrodorus metrodorus* (D)  
HESPERIIDAE



12 *Phocides metrodorus metrodorus* (V)  
HESPERIIDAE



13 *Potamanaxas* sp. (D)  
HESPERIIDAE



14 *Potamanaxas* sp. (V)  
HESPERIIDAE



15 *Proteides mercurius* (D)  
HESPERIIDAE



16 *Proteides mercurius* (V)  
HESPERIIDAE



17 *Pyrrhopyge crida* (D)  
HESPERIIDAE



18 *Pyrrhopyge crida* (V)  
HESPERIIDAE



19 *Pyrrhopyge hadassa* (D)  
HESPERIIDAE



20 *Pyrrhopyge hadassa* (V)  
HESPERIIDAE



21 *Staphylus* sp. (D)  
HESPERIIDAE



22 *Staphylus* sp. (V)  
HESPERIIDAE



23 *Ancyluris etias etias* (D)  
RIODINIDAE



24 *Ancyluris etias etias* (V)  
RIODINIDAE



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25 *Echydna punctata* (D)  
RIODINIDAE



26 *Echydna punctata* (V)  
RIODINIDAE



27 *Emesis lucinda* (D)  
RIODINIDAE



28 *Emesis lucinda* (V)  
RIODINIDAE



29 *Eurybia caerulescens* (D)  
RIODINIDAE



30 *Eurybia caerulescens* (V)  
RIODINIDAE



31 *Eurybia dardus* (D)  
RIODINIDAE



32 *Eurybia dardus* (V)  
RIODINIDAE



33 *Euselasia zena* (D)  
RIODINIDAE



34 *Euselasia zena* (V)  
RIODINIDAE



35 *Mesosemia machaerea* (D)  
RIODINIDAE



36 *Mesosemia machaerea* (V)  
RIODINIDAE



37 *Mesosemia philocles* (D)  
RIODINIDAE



38 *Mesosemia philocles* (V)  
RIODINIDAE



39 *Monethe albertus* (D)  
RIODINIDAE



40 *Monethe albertus* (V)  
RIODINIDAE


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41 *Chorinea octavius*  
RIODINIDAE (VL)



42 *Chorinea octavius*  
RIODINIDAE (VL)



43 *Arzecla* aff. *taminella* (D)  
LYCAENIDAE



44 *Arzecla* aff. *taminella* (V)  
LYCAENIDAE



45 LYCAENIDAE



46 LYCAENIDAE



47 *Anteos menippe* (D)  
PIERIDAE



48 *Anteos menippe* (V)  
PIERIDAE



49 *Phoebis philea* (D)  
PIERIDAE



50 *Phoebis philea* (V)  
PIERIDAE



51 *Battus crassus crassus* (D)  
PAPILIONIDAE



52 *Battus crassus crassus* (V)  
PAPILIONIDAE



53 *Eurytides serville* (D)  
PAPILIONIDAE



54 *Eurytides serville* (V)  
PAPILIONIDAE



55 *Heraclides androgeus epidaurus* (D)  
PAPILIONIDAE



56 *Heraclides androgeus epidaurus* (V)  
PAPILIONIDAE


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57 *Heraclides thoas* (D)  
PAPILIONIDAE



58 *Heraclides thoas* (V)  
PAPILIONIDAE



59 *Parides c. childrenae* (D)  
PAPILIONIDAE



60 *Parides c. childrenae* (V)  
PAPILIONIDAE



61 *Protesilaus p. protesilaus* (D)  
PAPILIONIDAE



62 *Protesilaus p. protesilaus* (V)  
PAPILIONIDAE



63 *Adelpha b. boeotia* (D)  
NYMPHALIDAE



64 *Adelpha b. boeotia* (V)  
NYMPHALIDAE



65 *Adelpha cytherea* (D)  
NYMPHALIDAE



66 *Adelpha cytherea* (V)  
NYMPHALIDAE



67 *Adelpha erotia* (D)  
NYMPHALIDAE



68 *Adelpha erotia* (V)  
NYMPHALIDAE



69 *Adelpha mesentina* (D)  
NYMPHALIDAE



70 *Adelpha mesentina* (V)  
NYMPHALIDAE



71 *Aeria* sp. (D)  
NYMPHALIDAE



72 *Aeria* sp. (V)  
NYMPHALIDAE



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73 *Anartia aff. fatima* (D)  
NYMPHALIDAE



74 *Anartia aff. fatima* (V)  
NYMPHALIDAE



75 *Anartia j. jatrophae* (D)  
NYMPHALIDAE



76 *Anartia j. jatrophae* (V)  
NYMPHALIDAE



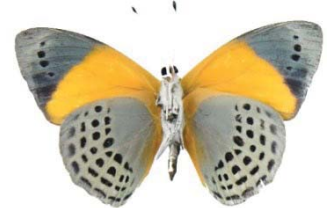
77 *Archaeoprepona demophon* (D)  
NYMPHALIDAE



78 *Archaeoprepona demophon* (V)  
NYMPHALIDAE



79 *Asterope markii* (D)  
NYMPHALIDAE



80 *Asterope markii* (V)  
NYMPHALIDAE



81 *Baeotus baeotus* (D)  
NYMPHALIDAE



82 *Baeotus baeotus* (V)  
NYMPHALIDAE



83 *Bia peruana* (D)  
NYMPHALIDAE



84 *Bia peruana* (V)  
NYMPHALIDAE



85 *Callicore cynosura* (D)  
NYMPHALIDAE



86 *Callicore cynosura* (V)  
NYMPHALIDAE



87 *Callicore eunomia* (D)  
NYMPHALIDAE



88 *Callicore eunomia* (V)  
NYMPHALIDAE

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89 *Callicore excelsior inferior* (D)  
NYMPHALIDAE



90 *Callicore excelsior inferior* (V)  
NYMPHALIDAE



91 *Catagramma hystaspes* (D)  
NYMPHALIDAE



92 *Catagramma hystaspes* (V)  
NYMPHALIDAE



93 *Catagramma pyracmon* (D)  
NYMPHALIDAE



94 *Catagramma pyracmon* (V)  
NYMPHALIDAE



95 *Castilia angusta* (D)  
NYMPHALIDAE



96 *Castilia angusta* (V)  
NYMPHALIDAE



97 *Castilia perilla* (D)  
NYMPHALIDAE



98 *Castilia perilla* (V)  
NYMPHALIDAE



99 *Catoblepia berecynthia* (D)  
NYMPHALIDAE



100 *Catoblepia berecynthia* (V)  
NYMPHALIDAE



101 *Catonephele acontius* (D)  
NYMPHALIDAE



102 *Catonephele acontius* (V)  
NYMPHALIDAE



103 *Catonephele n. numilia* (D)  
NYMPHALIDAE



104 *Catonephele n. numilia* (V)  
NYMPHALIDAE



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105 *Chloroptychia agatha* (D)  
NYMPHALIDAE



106 *Chloroptychia agatha* (V)  
NYMPHALIDAE



107 *Cithaeris pireta* (D)  
NYMPHALIDAE



108 *Cithaeris pireta* (V)  
NYMPHALIDAE



109 *Diaethria clymena* (D)  
NYMPHALIDAE



110 *Diaethria clymena* (V)  
NYMPHALIDAE



111 *Dione juno* (D)  
NYMPHALIDAE



112 *Dione juno* (V)  
NYMPHALIDAE



113 *Dryas iulia* (D)  
NYMPHALIDAE



114 *Dryas iulia* (V)  
NYMPHALIDAE



115 *Eresia* sp. (D)  
NYMPHALIDAE



116 *Eresia* sp. (V)  
NYMPHALIDAE



117 *Euptychia* sp. (D)  
NYMPHALIDAE



118 *Euptychia* sp. (V)  
NYMPHALIDAE



119 *Fountainea eurypyle confusa* (D)  
NYMPHALIDAE



120 *Fountainea eurypyle confusa* (V)  
NYMPHALIDAE



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121 *Heliconius elevatus* (D)  
NYMPHALIDAE



122 *Heliconius elevatus* (V)  
NYMPHALIDAE



123 *Heliconius melpomene* (D)  
NYMPHALIDAE



124 *Heliconius melpomene* (V)  
NYMPHALIDAE



125 *Heliconius* sp. (D)  
NYMPHALIDAE



126 *Heliconius* sp. (V)  
NYMPHALIDAE



127 *Heliconius wallacei* (D)  
NYMPHALIDAE



128 *Heliconius wallacei* (V)  
NYMPHALIDAE



129 *Hermeuptychia harmonia* (D)  
NYMPHALIDAE



130 *Hermeuptychia harmonia* (V)  
NYMPHALIDAE



131 *Hermeuptychia hermes* (D)  
NYMPHALIDAE



132 *Hermeuptychia hermes* (V)  
NYMPHALIDAE



133 *Hermeuptychia f. fallax* (D)  
NYMPHALIDAE



134 *Hermeuptychia f. fallax* (V)  
NYMPHALIDAE



135 *Historis o. odius* (D)  
NYMPHALIDAE



136 *Historis o. odius* (V)  
NYMPHALIDAE

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10

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137 *Hypanartia kefersteini* (D)  
NYMPHALIDAE



138 *Hypanartia kefersteini* (V)  
NYMPHALIDAE



139 *Ithomia* sp. (D)  
NYMPHALIDAE



140 *Ithomia* sp. (V)  
NYMPHALIDAE



141 *Magneptychia libye* (D)  
NYMPHALIDAE



142 *Magneptychia libye* (V)  
NYMPHALIDAE



143 *Marpesia crethon* (D)  
NYMPHALIDAE



144 *Marpesia crethon* (V)  
NYMPHALIDAE



145 *Marpesia petreus* (D)  
NYMPHALIDAE



146 *Marpesia petreus* (V)  
NYMPHALIDAE



147 *Memphis glauce* (D)  
NYMPHALIDAE



148 *Memphis glauce* (V)  
NYMPHALIDAE



149 *Memphis m. morvus* (D)  
NYMPHALIDAE



150 *Memphis m. morvus* (V)  
NYMPHALIDAE



151 *Memphis* sp. (D)  
NYMPHALIDAE



152 *Memphis* sp. (V)  
NYMPHALIDAE



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153 *Mesotaenia vaninka doris* (D)  
NYMPHALIDAE



154 *Mesotaenia vaninka doris* (V)  
NYMPHALIDAE



155 *Metomorpha e. elissa* (D)  
NYMPHALIDAE



156 *Metomorpha e. elissa* (V)  
NYMPHALIDAE



157 *Morpho deidamia* (D)  
NYMPHALIDAE



158 *Morpho deidamia* (V)  
NYMPHALIDAE



159 *Morpho helenor* (D)  
NYMPHALIDAE



160 *Morpho helenor* (V)  
NYMPHALIDAE



161 *Nessaea h. hewitsonii* (D)  
NYMPHALIDAE



162 *Nessaea h. hewitsonii* (V)  
NYMPHALIDAE



163 *Oleria onega crispinilla* (D)  
NYMPHALIDAE



164 *Oleria onega crispinilla* (V)  
NYMPHALIDAE



165 *Oleria* sp. 1 (D)  
NYMPHALIDAE



166 *Oleria* sp. 1 (V)  
NYMPHALIDAE



167 *Oleria* sp. 2 (D)  
NYMPHALIDAE



168 *Oleria* sp. 2 (V)  
NYMPHALIDAE

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Photos: Missouri Botanical Garden (MBG) and the authors. Produced by Vega-G Y. [yevag@unal.edu.co] and Vásquez P. Acknowledgments: “Christopher Davidson and Sharon Christoph” of Missouri Botanical Garden, Rocío Del P. Rojas, Rodolfo Vásquez, Thibaud Aronson, 2020 EAA cohort, Argenis Bonilla, Andrea Martínez, and SERNANP for permitting the collection of butterfly specimens under resolution N° 004-2020-SERNANP-PNYCh. Legend: (D) Dorsal, (V) Ventral.



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169 *Opsiphanes cassini* (D)  
NYMPHALIDAE



170 *Opsiphanes cassini* (V)  
NYMPHALIDAE



171 *Pierella h. hortona* (D)  
NYMPHALIDAE



172 *Pierella h. hortona* (V)  
NYMPHALIDAE



173 *Pierella lamia* (D)  
NYMPHALIDAE



174 *Pierella lamia* (V)  
NYMPHALIDAE



175 *Pierella lena* (D)  
NYMPHALIDAE



176 *Pierella lena* (V)  
NYMPHALIDAE



177 *Polygrapha xenocrates* (D)  
NYMPHALIDAE



178 *Polygrapha xenocrates* (V)  
NYMPHALIDAE



179 *Prepona claudina* (D)  
NYMPHALIDAE



180 *Prepona claudina* (V)  
NYMPHALIDAE



181 *Prepona d. dexamenus* (D)  
NYMPHALIDAE



182 *Prepona d. dexamenus* (V)  
NYMPHALIDAE



183 *Pseudadebis marpessa* (D)  
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184 *Pseudadebis marpessa* (V)  
NYMPHALIDAE



# Yanachaga-Chemillén National Park , Pasco, PERU

## Butterflies of Paujil sector

Yeison Vega-G<sup>1,2,3</sup> & Pamela Vásquez<sup>4</sup>

Universidad Nacional de Colombia, <sup>2</sup>Grupo de Investigación Biología de Organismos Tropicales (BIOTUN), <sup>3</sup>Semillero de Investigación Biogeografía y Ecología Evolutiva (BEEN), & <sup>4</sup>Universidad Indoamericana

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185 *Siderone aff. galathis* (D)  
NYMPHALIDAE



186 *Siderone aff. galathis* (V)  
NYMPHALIDAE



187 *Siproeta stelenes* (D)  
NYMPHALIDAE



188 *Siproeta stelenes* (V)  
NYMPHALIDAE



189 *Temenis laothoe* (D)  
NYMPHALIDAE



190 *Temenis laothoe* (V)  
NYMPHALIDAE



191 *Temenis cf. laothoe* (D)  
NYMPHALIDAE



192 *Temenis cf. laothoe* (V)  
NYMPHALIDAE



193 *Tithorea* sp. (D)  
NYMPHALIDAE



194 *Tithorea* sp. (V)  
NYMPHALIDAE



195 *Zaretis itys* (D)  
NYMPHALIDAE



196 *Zaretis itys* (V)  
NYMPHALIDAE



197 *Zaretis* sp. (D)  
NYMPHALIDAE



198 *Zaretis* sp. (V)  
NYMPHALIDAE

