

ECOLOGICAL REPORT MONTHLY

Inkaterra Machu Picchu Pueblo Hotel-ITMP
From November 1st to 30th, 2013

RESIDENT BIOLOGIST: CARMEN R. SOTO VARGAS

FLORA & FAUNA

ORCHIDS IN BLOOM

Ada brachypus (Reichenbach f.) N.H.Williams
Ada peruviana D.E. Bennett & Christenson
Anathallis ramulosa (Lindl.) Pridgeon & M.W. Chase
Ancipitia dunstervillei (Foldats) Luer
Anguloa virginalis Lindley
Barbosella cucullata (Lindley) Schlechter
Barbosella prorepens (Reichenbach f.) Schlechter
Brachionidium carmeniae Luer
Brachionidium inkaterrense Luer & C.Soto
Brachionidium ephemereum Luer & Hirtz
Brachionidium elegans Luer & Hirtz
Brachionidium machupicchuense Salinas & Christenson
Brassia aff. *aurorae* Bennett
Comparettia falcata Poeppig & Endlicher
Comparettia rubriflora (Senghas) M.W. Chase & N.H. Williams
Comparettia vallyana Collantes & G.Gerlach, sp. nov.
Cryptocentrum inaequisepalum C.Schweinfurth
Cyclopogon sp.
Cyclopogon peruvianus (Presl) Schlechter
Cyrtochilum cimiciferum (Reichenbach f.) Dalström
Cyrtochilum aff. *cimiciferum* (Reichenbach f.) Dalström
Cyrtochilum fractum (Reichenbach f.) Kraenzlin
Cyrtochilum minax (Reichenbach) Kraenzlin
Cyrtochilum graminoides Dalström
Cyrtochilum myanthum (Lindley) Dalström
Cyrtochilum sharoniae Dalström
Cyrtochilum volubile Poepp. & Endl.
Dichaea aff. *muricata* (Swartz) Lindley
Echinosepala aspasicensis (Reichenbach f.) Pridgeon & M.W. Chase
Elleanthus amethystinus (Reichenbach f. & Warszewicz) Reichenbach f.
Elleanthus aurantiacus (Lindley) Reichenbach f.
Elleanthus aff. *capitatus* (Poeppig & Endlicher) Reichenbach f.



Brachionidium machupicchuense Salinas & Christenson
Foto: Carmen Soto



Cryptocentrum inaequisepalum C. Schweinfurth
Foto: Carmen Soto

Elleanthus aff. capitatus (Poeppig & Endlicher)
Reichenbach f.
Elleanthus longibracteatus (Lindley ex. Grisebach)
Fawcett
Epidendrum excisum Lindley
Epidendrum frutex Reichenbach f.
Epidendrum cf. fujimorianum Bennett & Christenson
Epidendrum jajense Reichenbach f.
Epidendrum lanioides Schlechter
Epidendrum pachacutecianum Hágsater & Collantes
Epidendrum paniculourubambense Hágsater et
E.Santiago, sp. nov.
Epidendrum quispei Hágsater & Collantes
Epidendrum schlimii Reichenbach f.
Epidendrum aff. secundum Jacquin
Epidendrum sophronitis Linden & Reichenbach f.
Epidendrum syringothyrsus Reichenbach f.
Epidendrum urubambae Hágsater
Erythodes aff. callophyloides Garay
Galeottia acuminata (Schweinfurth) Dressler &
Christenson
Gongora rufescens Jenny
Govenia tingens Poeppig & Endlicher
Habenaria ligulata Schweinfurth
Ixyophora aurantiaca Senghas & Gerlach
Kefersteinia koechlinorum Christenson
Lepanthes alticola Schweinfurth
Lepanthes menatoi Luer & R. Vásquez
Lepanthes longipedicellata Schweinfurth
Lepanthes pteropogon Reichenbach f.C.
Lepanthes pubicaulis Schweinfurth
Lepanthes sp.1
Lepanthes sp.2
Lepanthes sp.4
Lockhartia longifolia (Lindley) Schlechter
Lycaste macrophylla (Poeppig & Endlicher)
Lindley}
Masdevallia antonii Koeniger
Masdevallia barlaeana Reichenbach f.
Masdevallia karineae Luer
Masdevallia veitchiana Reichenbach f.
"Wakanki", "Llorarás" "You will cry"
Maxillaria alpestris Lindley
Maxillaria brachypetala Schlechter
Maxillaria calantha Schlechter
Maxillaria deniseae Collantes & Christenson
NOM. NOV.
Maxillaria floribunda Lindley
Maxillaria funicaulis Schweinfurth
Maxillaria gorbatschowii Vasq., Dods. &
Ibisch
Maxillaria gigantea (Lindley) Dodson
Maxillaria graminifolia (H.B.K.) Reichenbach f.



Maxillaria longipetala Ruiz & Pavón
Maxillaria aff. *luteorubra* (Lindley) Reichenbach f.
Maxillaria nasuta Reichenbach
Maxillaria notylioglossa Reichenbach f.
Maxillaria platypetala Ruiz & Pavón
Maxillaria trigona Schweinfurth
Maxillaria sp.5

Mormolyca acutifolia (Lindley) M.A. Blanco
Myoxanthus serripetalus Kraenzlin & Luer
Odontoglossum epidendroides Kunth
Oliveriana brevilabia (C. Schweinf.) Dressler
 & N.H. Williams

Oncidium koechliniana Collantes &
 G.Gerlach sp. nov.

Oncidium retusum Lindley

Pachyphyllum tortuosum Foldats

Platystele oxyglossa (Schlechter) Garay

Pleurothallis cordata (Ruiz & Pavón) Lindley

Pleurothallis coriacardia Reichenbach f.

Pleurothallis lamellaris Lindley

Pleurothallis otopetalum (Lehmann & Kraenzlin) Schlechter

Pleurothallis phyllocardioides Schlechter

Pleurothallis scabrata Lindley

Pleurothallis ruberrima Lindley

Pleurothallis aff. *setigera* Lindley

Pleurothallis sp.1

Pleurothallis sp.6

Prosthechea crassilabia (Poeppig &
 Endlicher) Carnevali & Rodriguez
Prosthechea farfanii Dodson &
 Bennett

Restrepiopsis aff. *tubulosa* (Lindley)
 Luer

Sobralia crocea (Poeppig &
 Endlicher) Reichenbach f.

Sobralia dichotoma var. *Alba*

Sobralia aff. *setigera* Poeppig &
 Endlicher

Stelis concaviflora Schweinfurth

Stelis purpurea (Ruiz & Pavón)

Willdenow

Stelis quinquenervia Schweinfurth

Stelis tricardium Lindley

Stelis sp.1

Stelis sp.2

Stellilabium pogonostalix (Reichenbach f.) Garay & Dunsterville. "Orquídea mosquito"
 "Mosquito orchid"

Stenia angustilabia Bennett & Christenson

Sudamerlycaste fimbriata (Poeppig & Endlicher) Archila

Sudamerlycaste locusta (Reichenbach f.) Archila

Telipogon bowmanii Reichenbach f.

Telipogon sp.1, VAR. NOV.

Trichoceros antennifer (Humboldt & Bonpland) Kunth N. R.

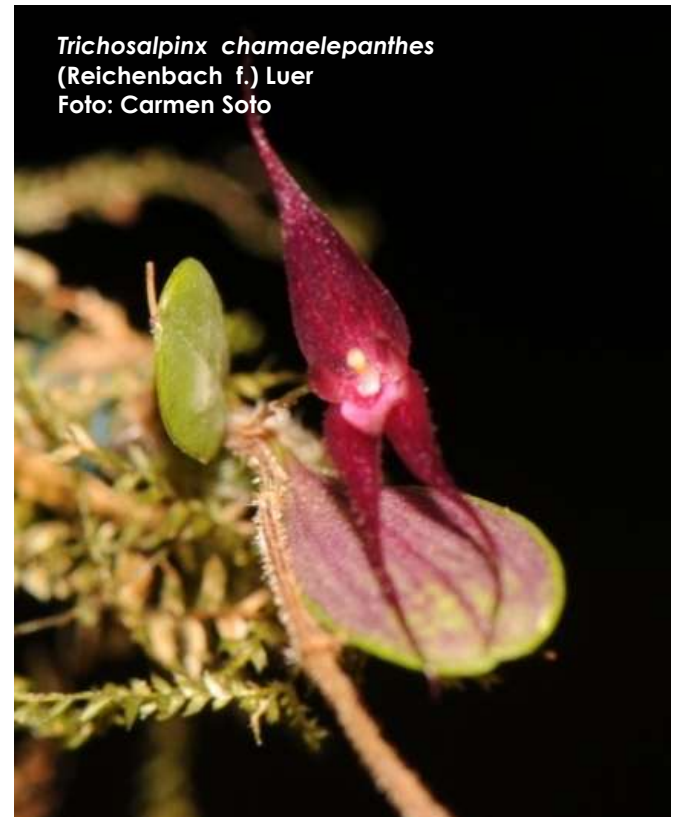


***Maxillaria longipetala* Ruiz & Pavón**
Foto: Carmen Soto



***Prosthechea farfanii* Dodson & Bennett**
Foto: Carmen Soto

Trichosalpinx arbuscula (Lindley) Luer
Trichosalpinx chamaelepanthes (Reichenbach f.) Luer
Trichosalpinx ligulata Luer & Hirtz
Trichosalpinx aff. memor (Reichenbach f.) Luer
Trichosalpinx patula Luer
Trichosalpinx sp.2
Xylobium bractescens (Lindley) Kraenzlin
Xylobium elatum Rolfe
Xylobium subintegrum Schweinfurth
Xylobium variegatum (Ruiz & Pavón) Garay & Dunsterville
Zootrophion aff. dayanum (Reichenbach f.) Luer



BIRD WATCHING

On November 29, the Explorer Guides Team of Inkaterra Machu Picchu Pueblo Hotel were doing a birdwatching training exercise preparing for the Birding Rally Challenge, as they were walking through the orchid trail they observed two migratory birds a Swainson's Thrush (*Catharus ustulatus*) and the Summer Tanager (*Piranga rubra*). During this exercise one of the Explorer Guides, Jose Lavilla, recognised a species that was not registered for the area of the Historic Sanctuary of Machu Picchu, a Ruddy Quail-Dove (*Geotrygon montana*)



Between the 1st and the 27th of November various specimens of Swainson's Thrush (*Catharus ustulatus*) were observed around the property. This bird species migrate from North America to South America, up to Argentina.

Swainson´s Thrush
Zorzal de Swainson
Catharus ustulatus



On November 6 and 9 the ecology team spotted a couple of Andean Gulls (*Chroicocephalus serranus*), a male and a female. This bird species are found between 3,000 to 4,500 metres above sea level, and are generally spotted in small groups, usually near the water .

Andean Gull
Gaviota Andina
Chroicocephalus serranus

From the 1st till the 30th of November 3 specimens (02 females and 01 male) of the Andean Cock of the Rock, (*Rupicola Peruvinus*) where spotted eating different types of fruits on the following areas: orchid trails, reception building, lobby, main dining room, room blocks from 20 to 90, sacred rock, camping area, tea house and Andean bear rescue centre. This species, member of the *Cotingidae* family, can be found on the cloud forests; the male can be easily identified by its beautiful bright red/orange colour.

Andean Cock-of-the-rock
Gallito de las Rocas Andino, Tunki
Rupicola peruvianus

Between the 1st and 30th of November a flock of Neotropic cormorants (*Phalacrocorax brasilianus*). This sea bird has a distribution that stretches along the coasts fo North America, Central America and South America.

Neotropic Cormorant
Cormorán Neotropical
Phalacrocorax brasilianus



From the 1st to the 30th of November, between 6:00a.m, and 18:00 p.m. and Andean motmot (*Momotus aequatorialis*) was observed at the following locations around Inkaterra Machu Picchu Pueblo Hotel: orchid trails, reception building, lobby, main dining room, room blocks from 20 to 90, sacred rock, camping area, tea house and Andean bear rescue centre. This bird belongs to the Momotidae family and has a characteristic tail that has a racket shape that swings like a pendulum.



Momotus aequatorialis
 Andean Motmot
 Relojero Andino

Foto: Carmen Soto

Momotus aequatorialis
Andean Motmot
Relojero Andino

Hummingbirds

Chestnut-breasted Coronet
 Sparkling Violetear
 Green Violetear
 White-bellied Woodstar
 Green-and-white Hummingbird
 White bellied Hummingbird
 Collared Inca
 Speckled Hummingbird
 Booted Racket-tail
 Long tailed Sylph
 Bronzy Inca

Picaflor Pechicastaño
 Oreja-Violeta Iridiscente
 Oreja-Violeta Verde
 Estrellita de Vientre Blanco
 Colibrí Verde y Blanco
 Colibrí de Vientre Blanco
 Inca Acollarado
 Colibri Jaspeado
 Picaflor Cola Raqueta
 Sílfide Colalarga
 Inca Bronceado

Boissonneaua matthewsii
Colibrí coruscans
Colibri thalassinus
Chaetocercus mulsant
Amazilia viridicauda
Leucippus chionogaster
Coeligena torquata
Adelomyia melanogenys
Ocreatus underwoodii
Agelaiocercus kingi
Coeligena coeligena



Golden-naped Tanager
 Tangara ruficervix
 Carmen Soto

Tanager

Silver-beaked Tanager
Fawn-breasted Tanager
Blue-and-black Tanager
Golden-naped Tanager
Beryl-spangled Tanager
Saffron-crowned Tanager
Silver backed Tanager
Blue necked Tanager
Blue-and-yellow Tanager
Blue and gray Tanager
Palm Tanager
Blue capped Tanager
Oleaginous Hemispingus
Rust-and yellow Tanager
Common Bush Tanager
Blue Dacnis
Capped Conebill

Tangara de Pico Plateado
Tangara de Pecho Anteadado
Tangara Azul y Negro
Tangara de Nuca Dorada
Tangara Lentejuelaza
Tangara Coroniazafrán
Tangara espalda plateada
Tangara cuello azul
Tangara Azul y Amarillo
Tangara Azuleja, Azulejo
Tangara de Palmeras
Tangara Gorra azul
Hemispingo Oleaginoso
Tángara Rojiamarilla
Tángara Matorralera Común
Mielero Azul
Picocono Coronado

Ramphocelus carbo
Pipraeidea melanonota
Tangara vassorii
Tangara ruficervix
Tangara nigroviridis
Tangara xanthocephala
Tangara viridicollis
Tangara cyanicollis
Thraupis bonariensis
Thraupis episcopus
Thraupis palmarum
Thraupis cyanicephala
Hemispingus frontales
Thlypopsis ruficeps
Chlorospingus optthalmicus
Dacnis cayana
Conirostrum albifrons

Warblers

Blackburnian Warbler
Slate throated Whitestart
Spectacled Whitestartart
Tropical Parula
Citrine Warbler
Pale legged Warbler
Russet crowned Warbler

Reinita de Garganta Naranja
Candelita garganta plumiza
Candelita de anteojos
Reinita tropical
Reinita naranjera
Reinita patas palidas
Reinita corona rojiza

Dendroica fusca
Myioborus miniatus
Myioborus melanocephalus
Parula pitiayumi
Basileuterius luteoviridis
Basileuterius signatus
Basileuterus coronatus

Slate throated Whitestart
Candelita garganta plumiza
Myioborus miniatus

Foto: Carmen Soto



Flycatcher

Tropical Kingbird
 Golden -crowned Flycatcher
 Slaty capped Flycatcher
 Streak necked Flycatcher
 Common Tody-Flycatcher
 Cinnamon Flycatcher
 Marble- faced Bristle Tyrannulet
 Mottle-cheeked Tyrannulet
 Ashy-headed Tyrannulet
 Plumbeous-crowned Tyrannulet
 White-winged Black Tyrant
 Sclater's Tyrannulet
 Smoke-colored Pewee
 White-crested Elaenia
 Yellow-bellied Elaenia
 Sierran Elaenia
 Highland Elaenia
 Blue-naped Chlorophonia

Piperito, corregidor
 Tirano Coronador
 Atrapamoscas Gorro Apizarrado
 Atrapamoscas cuello listado
 Picoespátula Común
 Atrapamoscas Canela
 Buscamoscas Carijaspeado
 Moscareta de Mejillas Moteadas
 Moscareta de Cabeza Ceniza
 Moscareta de Corona Plomiza
 Viudita Aliblanca
 Buscamoscas de Sclater
 Pibí Ahumado
 Elaenia Crestiblanca
 Elaenia Ventriamarilla
 Elaenia de Pallatanga
 Elaenia oscura
 Clorofonia de Nuca Azul

Tyrannus melancholicus
Myiodynastes chrysocephalus
Leptopogon superciliaris
Mionectes striaticollis
Todirostrum cinereum
Pyrrhomyias cinnamomea
Pogonotriccus ophthalmicus
Phylloscartes ventralis
Phyllomyias cinereiceps
Phyllomyias plumbeiceps
Knipolegus aterrimus
Phyllomyias sclateri
Contopus fumigatus
Elaenia albiceps
Elaenia flavogaster
Elaenia pallatangae
Elaenia obscura
Chlorophonia cyanea



Siskins, Euphonia and Chlorophonia

Olivaceous Siskin
 Thick-billed Euphonia

Jilguero Oliváceo
Euphonia laniirostris

Carduelis olivacea
 Eufonia de Pico Grueso

Other birds

Andean Guan
 Andean Slaty-Thrush
 Dusky Green Oropendola
 Mitred Parakeet
 Speckle-faced Parrot

Pava Andina
 Zorzal-Pizarroso Andino
 Paucar, Oropéndola
 Cotorra Carirroja
 Loro Cabecirrosada

Penelope montagnii
Turdus nigriceps
Psarocolius atrovirens
Aratinga mitrata
Pionus tumultuosus

Golden-olive Woodpecker	Carpintero Olivaceo	<i>Piculus rubiginosus</i>
Black-backed Grosbeak	Picogrueso de Dorso Negro	<i>Pheucticus aureoventris</i>
Hepatic Tanager	Piranga Bermeja	<i>Piranga flava</i>
Summer Tanager	Piranga Roja	<i>Piranga rubra</i>
Chestnut-capped Brush-Finch	Matorralero de Gorro Castaño	<i>Buarremon brunneinucha</i>
Gray-breasted Wood Wren	Cucarachero pechigris	<i>Henicorhina leucophrys</i>
House Wren	Cucarachero común	<i>Troglodytes aedon</i>
Streaked Xenops	Picolezna Rayado	<i>Xenops rutilans</i>
Eared Dove	Paloma Rabi-blanca	<i>Zenaida auriculata</i>
White-throated Quail Dove	Paloma Boba	<i>Geotrygon frenata</i>
White-tipped Dove	Paloma de Cola Blanca	<i>Leptotila verreauxi</i>
Rufous –collared Sparrow	Gorrión común	<i>Zonotrichia capensis</i>
Red eyed Vireo	Chivi chivi ojo rojo	<i>Vireo olivaceus</i>
Brown-capped Vireo	Vireo Gorro marrón	<i>Vireo leucophrys</i>
Azara's Spinetail	Pijui- Colaespina de Azara	<i>Synallaxis azarae</i>
Yellow bellied Seedeater	Semillero vientre-amarillo	<i>Sporiphila nigricollis</i>

Birds in the River

6:00 a.m – 6.00 p.m En el río Vilcanota a la altura del Helipuerto, y río Alccamayo se observa:

Torrent Duck	Pato de los Torrentes	<i>Merganetta armata</i>
White capped Dipper	Mirlo Acuático Cabeciblanca	<i>Cinclus leucocephalus</i>
Black phoebe	Atrapamoscas cuida ríos	<i>Sayornis nigricans</i>
Torrent tyrannulent	Caza moscas del torrente	<i>Serpophaga cinérea</i>
Blue and white Swallow	Golondrina azul y blanco	<i>Notiochelidum cyanoleuca</i>

Singing birds registration

Stripe-faced Wood-Quail	Codorniz Enmascarada	<i>Odontophorus balliviani</i>
Andean Solitaire	Solitario Andino	<i>Myadestes ralloides</i>
White-eared Solitaire	Solitario Orejiblanco	<i>Entomodestes leucotis</i>

MAMMALS

Andean Bear Rescue Center (*Tremarctos ornatus*) Inkaterra Asociacion –ITA has created a rescue centre for this unique bear species. The goal of this project is the conservation and research of this bear, but also the rehabilitation and reinsertion of rescued specimens into the wild. The spectacle bear is the only native bear species of South America, and has a distribution that covers the high Andean region of Venezuela down south to Bolivia.

Andean Bear/ Spectacled Bear
Oso andino, oso de anteojos, oso frontino, ukuku, ukumari.
Tremarctos ornatus





BUTTERFLIES

NYMPHALIDAE/MORPHINAE

Morpho lympharis lympharis Butler, 1873

NYMPHALIDAE/MORPHINAE/BRASSOLINI/BRASSOLINA

Caligo oileus umbratilis Stichel, 1903

PAPILIONIDAE /PAPILIONINAE/TROIDINI

Battus madyes montebanus (Dyar, 1913)

PAPILIONIDAE /PAPILIONINAE/PAPILIONINI

Heraclides paeon paeon (Boisduval, 1836)

PAPILIONIDAE /PAPILIONINAE/LEPTOCIRCINI

Mimoides xeniades signatus Tyler, Brown & Wilson, 1994

NYMPHALIDAE/ HELICONINAE

Heliconius telesiphe telesiphe Doubleday

Agraulis vanillae maculosa (Stichel, 1908)

Dryas iulia alcionae (Cramer, 1779)

Actinote thalia crassinia (Hpffer, 1874)

Allinote negra demonica (Hpffer, 1874)

Allinote momina (Jordan, 1910)

Dione juno juno /Cramer, 1977)

Agraulis vanillae maculosa /Stichel, 1908)

Dione glycera (C. y R. Felder, 1861)

NYMPHALIDAE/ ITHOMINAE

Greta hermana koechlini Lamas, 2003

Oleria makrena ochoai Lamas, 2003

PIERIDAE/COLIADINAE

Phoebis sennae marcellina Cramer, 1777

RIODINIDAE/EUSELASINAE/STYGINE

Stix infernalis Staudinger, 1876

RIODINIDAE/RIODININAE/RIODININI

Chorinea sylphina (Bates, 1868)

MEDICINAL PLANTS

Cinchona pubescens (Rubiaceae)

Ficus maxima Mill.(Moraceae)

Croton rehderianus (Euphorbiaceae)

Piper elongatum (Piperaceae)

Juglans neotropica Diels Juglandaceae)

Clusia trochiformis (Clusiaceae)

Siparuna harongifolia (Siparunaceae)

Toxicodendron striatum (Ruiz & Pav.) Kuntze

Bocconia integrifolia Bonpl. (Papaveraceae)

Hedyosmum sp. (Chloranthaceae)

Erythroxylum coca (Erythroxylaceae)

Weinmannia sp. (Cunoniaceae)

Cyathea caracasana (Klotzsch) Domin.

Minthostachys setosa

Oxalis spp

Calceolaria spp (Scrophulariaceae)

Chenopodium ambrosioides

Equisetum giganteum L.

Ephedra americana

Cascarilla

Leche leche

Sangre de grado

Moco-moco, matico

Nogal "Walnut"

Inciencio

Monte limón

Incate

Yanali

Monte anis

Coca, kuka

Huichullu

Sano sano

Muña

Oca-oca

Sapatico

Paico

Cola de caballo

Pinco pinco, cola de caballo