Copyright © 2012 · Magnolia Press

Correspondence

ISSN 1175-5326 (print edition)

ZOOTAXA

ISSN 1175-5334 (online edition)

urn:lsid:zoobank.org:pub:1E76820A-DE24-4123-9E22-18DFD7C5DCB9

On the correct holotype and type locality of *Cercomacra sclateri* Hellmayr 1905 (Aves: Thamnophilidae)

VAGNER CAVARZERE^{1,2,4}, MARY LeCROY³, RAFAEL SOBRAL MARCONDES^{1,2}, THIAGO VERNASCHI VIEIRA DA COSTA^{1,2} & LUÍS FÁBIO SILVEIRA²

Cercomacra cinerascens Hellmayr 1905 is a medium-sized species of antibrid distributed throughout the Amazon Basin in South America. It comprises a complex of four currently recognized taxa, C. c. cinerascens (Sclater 1857), C. c. immaculata Chubb 1918, C. c. sclateri Hellmayr 1905 and C. c. iterata Zimmer 1932, all characterized by the grey coloration of males and brownish olive coloration of females, long and graduated white-tipped tails, hidden white interscapular patch and distinct stiff rictal bristles. All subspecies primarily inhabit unflooded terra firme forests, the former two occurring north of the Rio Amazonas and the latter two in southern Amazonia (Fig. 1, Zimmer & Isler 2003).

Cercomacra c. sclateri was described as a species by Hellmayr (1905) and is known to occur from northeastern Peru east to the left margin of the Rio Madeira, in the states of Amazonas and Rondônia, Brazil (Fig. 1, Zimmer & Isler 2003). However, a specimen (491032) deposited at the American Museum of Natural History (AMNH), New York, labeled as the holotype of C. sclateri (Fig. 2A) and listed as such in the catalogue of type specimens of birds of that institution (LeCroy & Sloss 2000), carries the locality "Igarapé-Assú". This location is in northern Pará state, Brazil (Paynter & Traylor 1991), ca. 1,800 km distant from the range recognized for C. c. sclateri and within the distribution of C. c. iterata (Fig. 1). LeCroy & Sloss (2000:51) argued that "there is considerable confusion in the literature as to type locality and which specimen is the type" of C. c. sclateri. We were motivated by this confusion to revisit the relevant materials, including Hellmayr's description and the type specimens, to clarify the holotype and type locality of this taxon.

By reviewing Hellmayr's description, we determined that the specimen AMNH 491032 was not designated as the holotype of *C. sclateri*. LeCroy & Sloss (2000) were probably misled by the fact that Hellmayr (1905:286) began his description of *C. sclateri* by listing this specimen, which was only a record of a bird collected at Igarapé-Açu (the current spelling of the locality, Paynter & Traylor 1991) by A. Robert, whose collection Hellmayr was studying. LeCroy & Sloss (2000) did not notice that the designation of the type of *sclateri* was given in a table containing the specimens Hellmayr (1905:288) examined, in which the expression "Type of *C. sclateri*" clearly indicates an adult male collected by E. Bartlett in "Chyavetas, E. Peru" (for which the correct spelling is Chayahuitas, Stephens & Traylor 1983) on 16 July 1866. That expression clearly constitutes the original designation of a holotype under article 73.1.1 of the International Code of Zoological Nomenclature (ICZN 1999), hereafter, the Code.

Guided by both locality and date of collection, we located the Bartlett specimen, which also remains with the types at the AMNH under the catalogue number 491022 (Fig. 2B). Cory & Hellmayr (1924:214) and Pinto (1938, 1978) listed the correct type locality for *C. sclateri* without indicating any particular specimen as the holotype. Hartert (1922:393) had already indicated Hellmayr's holotype and type locality. This specimen, as LeCroy & Sloss (2000:51) remark, "has always been labeled as the type in the AMNH Collection". It still has a Rothschild type label, which had been marked "Not a type" prior to the time when LeCroy & Sloss (2000) prepared their publication (Fig. 2C).

Article 72.4.1 of the Code states that "the type series of a nominal species-group taxon consists of all the specimens included by the author in the new nominal taxon (whether directly or by bibliographic reference), except any that the author expressly excludes from the type series, or refers to as distinct variants (...), or doubtfully attributes to the taxon", while article 72.4.5 indicates that "when an author designates a holotype, then the other specimens of the type series are paratypes". Therefore, all specimens listed by Hellmayr and not explicitly designated as the type must be considered paratypes. We have also located those specimens (Table 1) and we perceived that a bird from Iquitos, Peru, and six others from Brazil are currently accepted to represent two different subspecies. By comparing LeCroy & Sloss' (2000) putative

¹Pós-Graduação, Departamento de Zoologia, Instituto de Biociências, Universidade de São Paulo, Caixa Postal 11.461, Cep 05422-970, São Paulo, SP, Brazil

²Museu de Zoologia da Universidade de São Paulo, Caixa Postal 42.494, Cep 04218-970, São Paulo, SP, Brazil

³Division of Vertebrate Zoology (Ornithology), American Museum of Natural History, New York, NY 10024-5192, USA

⁴Corresponding author. E-mail: cavarzere@usp.br

holotype (in fact a paratype) of *sclateri* (AMNH 491032) with that of *iterata* (AMNH 286595), both adult females, we concluded that they are virtually identical, and that the locality of AMNH 491032 lies within the geographical limits recognized for *C. c. iterata*. A complete taxonomic revision of the genus is currently under way and the validity of subspecies within the *C. cinerascens* complex will be discussed elsewhere (Cavarzere & Silveira in prep.).

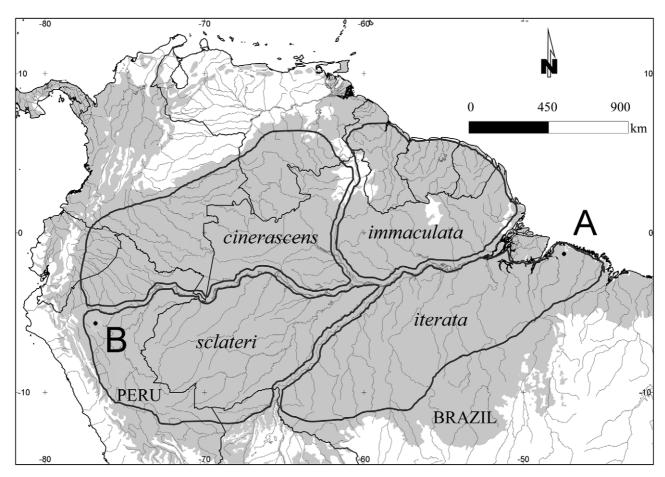


FIGURE 1. Map showing the ranges of the *Cercomacra cinerascens* species complex in South America (adapted from Zimmer & Isler 2003) and the type localities of *C. c. iterata* (Igarapé-Açu, Brazil [A]) and *C. c. sclateri* (Chayahuitas, Peru [B]). Light grey shadings indicate tropical and subtropical moist forests of northern South America.

Acknowledgments

VC, RSM and TVVC benefited from Collection Study Grants to visit the AMNH. VC was also supported by Fundação de Amparo à Pesquisa do Estado de São Paulo FAPESP (2010/11798-5) and LFS receives a grant from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq, 313818/2009-6). We thank the staff at the AMNH for the reception during our visit, and Glaucia Del Rio, Guilherme Garbino, Marco Rego and Vitor Piacentini for reviewing this manuscript. Drs. Sylke Frahnert (Museum für Naturkunde, Berlin), Gerald Mayr (Senckenberg Museum, Frankfurt), Renate van den Elzen (Museum Alexander Koenig, Bonn) and Anita Gamauf and Berg Hans-Martin (Naturhistorisches Museum Wien, Vienna) kindly provided essential information on *Cercomacra* skins deposited under their care. Léo Novaes produced all images. Two anonymous referees assisted with meticulous observations.



FIGURE 2. (A) LeCroy & Sloss' (2000) putative holotype (AMNH 491032) of *Cercomacra sclateri* Hellmayr, (B) the holotype (AMNH 491022) designated by Hellmayr (1905) and (C) Erroneous "Not a type" notation on the Rothschild type label of Hellmayr's holotype.

these specimens appear in Hellmayr's table of examined specimens. Acronyms: AMNH: American Museum of Natural History, New York; BMNH: Natural History Museum, Tring; NMW: Naturhistorisches Museum Wien, Vienna; SNG: Senckenberg Museum, Frankfurt. Coordinates are taken from Stephens & Traylor (1983) and Paynter & Traylor (1991). TABLE 1. Current museums and taxonomic placement of the original type series of Cercomacra sclateri Hellmayr 1905. The "#" symbol indicates the actual order in which

| ant | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|---|---|--|---|--|--|--|--|--|--|--|---|--|---|---|--|--|---|--|--|---|---|--|---|--|---|--|---|--|---|
| Current taxonomic placeme | | C. c. cinerascens | i | C. c. sclateri | | C. c. sclateri | C. c. sclateri | | C. c. sclateri | | | C. c. sclateri | | C. c. iterata | | | C. c. iterata | | | C. c. iterata | | | | C. c. iterata | | | C. c. iterata | | | C. c. iterata |
| Catalogue | number | 39299 | | 491022 | 0000 | 491023 | 1989.9.20.402 | | 1989.9.20.404 | | | 1989.9.20.400 | | 15.345 (sub C. c. | sclateri) | | 15.346 (sub C. c. | sclateri) | | 15.343 (sub C. c. | sclateri) | | | 15.347 (sub C. c. | sclateri) | | 15.348 (sub C. c. | sclateri) | | 491032 |
| Museum | | SNG | | AMNH | 111 0 6 7 | AMNH | BMNH | | BMNH | | | BMNH | | NMW | | | NMW | | | NMW | | | | NMW | | | NMW | | | AMNH |
| Type | status | Paratype | , | Holotype | | Paratype | Paratype | | Paratype | | | Paratype | | Paratype | | | Paratype | | | Paratype | | | | Paratype | | | Paratype | | | Paratype |
| Coordinates | | 03°46'S | W.CI ~ 5/ | 05°27'S | /6°48°W | 05°27′S 76°48′W | 05°27'S | 76°48'W | Inexact | locality | | 05°27'S | 76°48'W | 04° 24'S | 89°35′W | | 04° 24'S | 29°35'W | | 15° 00'S | 59° 57'W | | | 04° 24'S | 89°35′W | | 09°20'S | 64°43'W | | 01°07'S |
| Date of | collection | iv 1884 | ; | 16 vii 1866 | 00 | 79 VII 1866 | No date | | No date | | | 1867 | | 18 vii 1830 | | | 3 v 1830 | | | 3 xi 1826 | | | | 18 vii 1830 | | | 16 x 1829 | | | 28 iv 1904 |
| Locality | (updated) | quitos, Loreto, | Peru | Chayahuitas, | Loreto, Peru | Chayahuitas, oreto Peru | Chayahuitas, | Loreto, Peru | Upper Rio | ∪cayali, | Jcayali, Peru | Chayahuitas, | Loreto, Peru | 3orba, | Amazonas, | Srazil | Borba, | Amazonas, | Brazil | Vila Bela da | Santíssima | Frindade, Mato | Grosso, Brazil | Borba, | Amazonas, | 3razil | Salto do Jirau, | Rondônia, | Brazil | Igarapé-Açu, Dará Brazil |
| _ | | NE I | | ш | Į. | n n | Э | Τ | | _ | 1 | J | 7 | Rio E | f | | Rio E | ł | | | J , | 1 | <u> </u> | | † | | | | | |
| Locality | (verbatin | Iquitos, | Feru | Chyaveta | Peru | Chyaveta | Chyaveta | Peru | Upper Ua | | | Chyaveta | | Borba, | Madeira | | Borba, | Madeira | | Villa Be | Mattogro | | | Borba | | | Salto | Girao, | Madeira | Igarapé-Assù, Pará |
| Sex | | | ad. | - | ad. | "⇔" vix ad | (© | ad. | (S) | ad. | | (†) | ad | . | ad. | | <u></u> | ad. | | <u></u> | ad. | | | <u>-</u> + | ad. | | <u>.</u> + | ad. | | <u>-</u> +-7 |
| # | | 1 | | 7 | , | <i>.</i> 0 | 4 | | 5 | | | 9 | | 7 | | | ∞ | | | 6 | | | | 10 | | | 11 | | | 12 |
| | Locality Locality Date of Coordinates Type Museum | Sex Locality Locality Date of Coordinates Type Museum Catalogue (verbatim) (updated) collection status number | Sex Locality Locality Date of Coordinates Type Museum Catalogue (verbatim) (updated) collection status number number | SexLocalityLocalityDateofCoordinatesTypeMuseumCatalogue"\$\tilde{\alpha}\$" Iquitos, NE Iquitos, Loreto, iv 188403°46'SParatypeSNG39299ad.PeruPeru73°15'W | Sex Locality Locality Date of Coordinates Type Museum Catalogue (verbatim) (updated) collection status number number ad. Peru Peru Ta·15" Holotype AMNH 491022 | Sex Locality Locality Date of Coordinates Type Museum Catalogue (verbatim) (updated) collection status number number ad. Peru Chyavetas, E Chayahuitas, 16 vii 1866 05°27'S Holotype AMNH 491022 | Sex Locality Locality Date of Coordinates Type Museum Catalogue (verbatim) (updated) collection status number number ad. Peru Peru Loreto, iv 1884 03°46'S Paratype SNG 39299 "\tilde{\cappa}" Chyavetas, E Chayahuitas, 16 vii 1866 05°27'S Holotype AMNH 491022 ad. Peru Loreto, Peru Loreto Peru Lore | Sex Locality Locality Date of Coordinates Type Museum Catalogue (verbatim) (updated) collection status number and Peru Peru Peru Loreto, Peru Loreto | SexLocalityLocalityDateofCoordinatesTypeMuseumCatalogue"3"(verbatim)(updated)collectionstatusnumberad.Peru2 lquitos, Loreto, Peru73°46'SParatypeSNG39299ad.Peru73°15'WHolotypeAMNH491022ad.Peru16 vii 186605°27'SParatypeAMNH491022"3"Chyavetas, EChayahuitas,29 vii 186605°27'SParatypeAMNH491023vix ad.PeruLoreto, Peru76°48'WParatypeBMNH1989.9.20.402(3)Chyavetas, EChayahuitas,No date05°27'SParatypeBMNH1989.9.20.402ad.PeruLoreto, Peru76°48'W76°48'W | SexLocalityLocalityDateofCoordinatesTypeMuseumCatalogue"3"(verbatim)(updated)collectionstatusnumberad.Peru73°15°WParatypeSNG39299ad.Peru73°15°WHolotypeAMNH491022ad.Peru16 vii 186605°27°SHolotypeAMNH491022"3"Chyavetas, EChayahuitas,29 vii 186605°27°SParatypeAMNH491023vix ad.Peru10°eto, Peru76°48°WAMNH1989.9.20.402(3)Chyavetas, EChayahuitas,No date05°27°SParatypeBMNH1989.9.20.402ad.PeruLoreto, Peru76°48°W76°48°WParatypeBMNH1989.9.20.402(3)Upper UcayaliUpper RioNo dateInexactParatypeBMNH1989.9.20.404 | SexLocalityLocalityDateofCoordinatesTypeMuseumCatalogue" $\ $ | SexLocalityLocalityDateofCoordinatesTypeMuseumCatalogue"3"(verbatim)(updated)collectionstatusnumber"3"Iquitos,Loretoiv 188403°46'SParatypeSNG39299ad.Peru73°15'WHolotypeAMNH491022ad.PeruLoreto, Peru76°48'WAMNH491022"3"Chyavetas, EChayahuitas,29 vii 186605°27'SParatypeAMNH491023vix ad.PeruLoreto, Peru76°48'WParatypeBMNH1989.9.20.402(3)Chyavetas, EChayahuitas,No date05°27'SParatypeBMNH1989.9.20.402ad.PeruLoreto, Peru76°48'WParatypeBMNH1989.9.20.404(3)Upper UcayaliUpperRioNo dateInexactParatypeBMNH1989.9.20.404ad.Ucayali,Loreto, PeruLocalityRioNo dateInexactParatypeBMNH1989.9.20.404 | SexLocalityLocalityDateofCoordinatesTypeMuseumCatalogue(verbatim)(updated)collectionstatusnumberad.Peru 73° 15'WParatypeSNG39299ad.Peru 73° 15'WHolotypeAMNH491022ad.Peru 16° vii 1866 05° 27'SParatypeAMNH491022vix ad.PeruLoreto, Peru 76° 48'WParatypeAMNH491023vix ad.PeruLoreto, Peru 76° 48'WParatypeBMNH1989.9.20.402($^{\circ}$)Chyavetas, EChayahuitas,No date 05° 27'SParatypeBMNH1989.9.20.404($^{\circ}$)Upper UcayaliUpperRioNo dateInexactParatypeBMNH1989.9.20.404($^{\circ}$)Upper Ucayali,Ucayali,Locayali,Peru1867 05° 27'SParatypeBMNH1989.9.20.400 | Sex Locality Locality Date of Coordinates Type Museum Catalogue "<"" identics, NE Iquitos, Loreto | Sex Locality Date of Coordinates Type Museum Catalogue "\frac{\triangle}{\triangle} (verbatim) (updated) collection status number ad. Peru Peru 73°15′W Paratype SNG 39299 ad. Peru Loreto, Peru 76°48′W AMNH 491022 ad. Peru Loreto, Peru 76°48′W AMNH 491023 vix ad. Peru Loreto, Peru 76°48′W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48′W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayahuitas, No date 16°48′W Paratype BMNH 1989.9.20.402 (3) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.404 (4) Ucayali, Loreto, Peru 16°48′W Aratype BMNH 1989.9.20.400 (4) Chyavetas Chayahuitas, <td>Sex Locality Date of Coordinates Type Museum Catalogue "3" Iquitos, NE Iquitos, Loreto, iv 1884 03°46'S Paratype SNG 39299 ad. Peru Peru 73°15'W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayahuitas, No date 16°48'W Paratype BMNH 1989.9.20.402 (3) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.402 (4) Chyavetas Chayahuitas, Berto 1867 05°27'S Paratype BMNH 1989.9.20.409 (2) Chyavetas Chyavetas 18 vii 1830 04°24'S Paratype BMNH <td< td=""><td>Sex Locality Locality Locality Date of coordinates Coordinates Type Museum Catalogue ".f" Iquitos, NE Iquitos, Loreto, Iv 1884 03°46'S Paratype SNG 39299 ad. Peru Peru 73°15'W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 d.c. Chyavetas, E Chayahuiras, Peru No date Inexact Paratype BMNH 1989.9.20.402 (.c. Upper Ucayali Upper Veru No date Inexact Paratype BMNH 1989.9.20.404 (.c. Ucayali, Peru 16°48'W Amatype BMNH 1989.9.20.400 (.c. Ucayali, Peru 18 vii 1830 04°24'S Paratype BMNH 19</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue ".f" Iquitos, NE Iquitos, Loreto, iv 1884 03°46S Paratype SNG 39299 ad. Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48W Paratype BMNH 1989.9.20.402 d. Chyavetas, E Chayahuitas, Operu No date 16°27S Paratype BMNH 1989.9.20.400 d. Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.400 d. Chyavetas Chayahuitas, I867 16°48W Paratype BMNH 1989.9.20.400 d. Loreto, Peru Rocayali 18 vii 1830 04°24'S Paratype NMW</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "\fraction" (verbatim) (updated) collection status number ad. Peru 73°46S Paratype SNG 39299 ad. Peru 103°46S Paratype SNG 39299 ad. Peru Loreto, Peru 76°48W AMNH 491022 "\fraction" Chyavetas E Chayahuitas 29 vii 1866 05°27'S Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (\frac{\pi}{3}) Upper Ucayali Peru 18 vii 1830 04°24'S Paratype BMNH 1989.9.20.400 (\frac{\pi}{3}) Borba, Rio Borba, Rio</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "\fraction" (verbatim) (updated) collection \$status number ad. Peru Peru 73-16W Portype AMNH 491022 ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru Rocajati, Peru Rocajati, Peru 16-48W Paratype BMNH 1989.9.20.402 (\pi)<td>Sex Locality Date of Coordinates Coordinates Type Museum Catalogue "√" Iquitos, NE Iquitos, Loreto, Peru collection collection status number ad. Peru Peru Chyavetas, E Chayahuitas, Chayahuitas, Chyawu 16 vii 1866 05°27'S Holotype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio No date 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio Rore</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "ζ" Iquitos, NE Iquitos, Loreto, Peru rollection 03-46/S Paratype SNG 39299 ad. Peru Loreto, Peru 16 vii 1866 05-27/S Holotype AMNH 491022 ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype BMNH 1989.20.402 d.3 Otyavetas E Chayahuitas, Peru Rotasani, Peru 76-48 W Paratype BMNH 1989.9.20.402 d.4 Peru Loreto, Peru 10capali, Peru 76-48 W Paratype BMNH 1989.9.20.404 (\$\beta\$) Upper Ucayali, Peru 16 viala 18 f7 65-27 S Paratype BMNH 1989.9.20.404 (\$\beta\$) Chyavetas <td< td=""><td>Sex Locality Locality Date of condinates (verbatim) of Locality Locality Locality Locality Date of lection condinates Type (verbatim) Museum (updated) collection ad. Peru Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 (∅) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.409 (∅) Upper Ucayali Ucayali, Peru 16°48'W 16°48'W Paratype BMNH 1989.9.20.409 (⋄) Ucayali, Peru 1867 6°27'S</td><td>Sex Locality Date (cordinates) of Coordinates status Type (updated) Museum (and addigue) Catalogue (status) "\tightarrow{</td><td>Sex Locality Locality Date of Coordinates (verbatim) Condition Condition Condition Condition Condition Condition Catus Immber ad. Peru Peru Peru 73°15°W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Chyavetas Chayabuitas, 1867 05°27°S Paratype BMNH 1989.9.20.400 ad. Borba, Rio Borba, Rio Borb</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\frace*" (verbadim) (updads.Loreto) collection collection status number ad. Peru Peru (verbalimits) 16 vii 1866 05°27°S Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayabuirias, Orders No date 05°27°S Paratype BMNH 1989.9.20.402 (4) Upper Ucayali No date 10°28°W Paratype BMNH 1989.9.20.404 (5) Upper Ucayali No date 10°28°T Paratype BMNH 1989.9.20.404 (4) Chyavetas Rio Borba 18 vii 1830 04°24°S Paratype</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\2" Iquitos, Ne Iquitos, Loreto, iv 1884 clos-descion <</td><td>Sex Locality Date of Coordinates Type Museum Catalogue ad. (verbatim) (updated) collection 10 346S Paratype SNG 39299 ad. Peru Peru Loreto, Peru 73°15'W Paratype SNG 39299 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (b) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (c) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Par</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "" (verbatim) (updated) collection collection 13-46'S Paratype SNG 39299 ad. Peru Peru Peru Loreto, Peru 76'48'W Paratype AMNH 491022 ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.402 ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali Brazil 18 vi 1830 04°27'S Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali 18 vi 1830 04°27'S<</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\"\"" quintos, Nebatima Locality Locality Locality 10-dection 63°46'S Paratype SNG 39299 "\"" quintos, Nebatimitos, Peru Peru Loceto, Peru 76°48'W Holotype AMNH 491022 "\"" Chyavetas, E Chayabulitas, Chyathulias, Peru 10-roceto, Peru 76°48'W Paratype AMNH 491023 (\"\") Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.400 (\(\'\) Upper Ucayali Peru Robera, Robe</td></td<></td></td></td<></td> | Sex Locality Date of Coordinates Type Museum Catalogue "3" Iquitos, NE Iquitos, Loreto, iv 1884 03°46'S Paratype SNG 39299 ad. Peru Peru 73°15'W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayahuitas, No date 16°48'W Paratype BMNH 1989.9.20.402 (3) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.402 (4) Chyavetas Chayahuitas, Berto 1867 05°27'S Paratype BMNH 1989.9.20.409 (2) Chyavetas Chyavetas 18 vii 1830 04°24'S Paratype BMNH <td< td=""><td>Sex Locality Locality Locality Date of coordinates Coordinates Type Museum Catalogue ".f" Iquitos, NE Iquitos, Loreto, Iv 1884 03°46'S Paratype SNG 39299 ad. Peru Peru 73°15'W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 d.c. Chyavetas, E Chayahuiras, Peru No date Inexact Paratype BMNH 1989.9.20.402 (.c. Upper Ucayali Upper Veru No date Inexact Paratype BMNH 1989.9.20.404 (.c. Ucayali, Peru 16°48'W Amatype BMNH 1989.9.20.400 (.c. Ucayali, Peru 18 vii 1830 04°24'S Paratype BMNH 19</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue ".f" Iquitos, NE Iquitos, Loreto, iv 1884 03°46S Paratype SNG 39299 ad. Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48W Paratype BMNH 1989.9.20.402 d. Chyavetas, E Chayahuitas, Operu No date 16°27S Paratype BMNH 1989.9.20.400 d. Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.400 d. Chyavetas Chayahuitas, I867 16°48W Paratype BMNH 1989.9.20.400 d. Loreto, Peru Rocayali 18 vii 1830 04°24'S Paratype NMW</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "\fraction" (verbatim) (updated) collection status number ad. Peru 73°46S Paratype SNG 39299 ad. Peru 103°46S Paratype SNG 39299 ad. Peru Loreto, Peru 76°48W AMNH 491022 "\fraction" Chyavetas E Chayahuitas 29 vii 1866 05°27'S Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (\frac{\pi}{3}) Upper Ucayali Peru 18 vii 1830 04°24'S Paratype BMNH 1989.9.20.400 (\frac{\pi}{3}) Borba, Rio Borba, Rio</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "\fraction" (verbatim) (updated) collection \$status number ad. Peru Peru 73-16W Portype AMNH 491022 ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru Rocajati, Peru Rocajati, Peru 16-48W Paratype BMNH 1989.9.20.402 (\pi)<td>Sex Locality Date of Coordinates Coordinates Type Museum Catalogue "√" Iquitos, NE Iquitos, Loreto, Peru collection collection status number ad. Peru Peru Chyavetas, E Chayahuitas, Chayahuitas, Chyawu 16 vii 1866 05°27'S Holotype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio No date 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio Rore</td><td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "ζ" Iquitos, NE Iquitos, Loreto, Peru rollection 03-46/S Paratype SNG 39299 ad. Peru Loreto, Peru 16 vii 1866 05-27/S Holotype AMNH 491022 ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype BMNH 1989.20.402 d.3 Otyavetas E Chayahuitas, Peru Rotasani, Peru 76-48 W Paratype BMNH 1989.9.20.402 d.4 Peru Loreto, Peru 10capali, Peru 76-48 W Paratype BMNH 1989.9.20.404 (\$\beta\$) Upper Ucayali, Peru 16 viala 18 f7 65-27 S Paratype BMNH 1989.9.20.404 (\$\beta\$) Chyavetas <td< td=""><td>Sex Locality Locality Date of condinates (verbatim) of Locality Locality Locality Locality Date of lection condinates Type (verbatim) Museum (updated) collection ad. Peru Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 (∅) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.409 (∅) Upper Ucayali Ucayali, Peru 16°48'W 16°48'W Paratype BMNH 1989.9.20.409 (⋄) Ucayali, Peru 1867 6°27'S</td><td>Sex Locality Date (cordinates) of Coordinates status Type (updated) Museum (and addigue) Catalogue (status) "\tightarrow{</td><td>Sex Locality Locality Date of Coordinates (verbatim) Condition Condition Condition Condition Condition Condition Catus Immber ad. Peru Peru Peru 73°15°W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Chyavetas Chayabuitas, 1867 05°27°S Paratype BMNH 1989.9.20.400 ad. Borba, Rio Borba, Rio Borb</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\frace*" (verbadim) (updads.Loreto) collection collection status number ad. Peru Peru (verbalimits) 16 vii 1866 05°27°S Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayabuirias, Orders No date 05°27°S Paratype BMNH 1989.9.20.402 (4) Upper Ucayali No date 10°28°W Paratype BMNH 1989.9.20.404 (5) Upper Ucayali No date 10°28°T Paratype BMNH 1989.9.20.404 (4) Chyavetas Rio Borba 18 vii 1830 04°24°S Paratype</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\2" Iquitos, Ne Iquitos, Loreto, iv 1884 clos-descion <</td><td>Sex Locality Date of Coordinates Type Museum Catalogue ad. (verbatim) (updated) collection 10 346S Paratype SNG 39299 ad. Peru Peru Loreto, Peru 73°15'W Paratype SNG 39299 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (b) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (c) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Par</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "" (verbatim) (updated) collection collection 13-46'S Paratype SNG 39299 ad. Peru Peru Peru Loreto, Peru 76'48'W Paratype AMNH 491022 ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.402 ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali Brazil 18 vi 1830 04°27'S Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali 18 vi 1830 04°27'S<</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\"\"" quintos, Nebatima Locality Locality Locality 10-dection 63°46'S Paratype SNG 39299 "\"" quintos, Nebatimitos, Peru Peru Loceto, Peru 76°48'W Holotype AMNH 491022 "\"" Chyavetas, E Chayabulitas, Chyathulias, Peru 10-roceto, Peru 76°48'W Paratype AMNH 491023 (\"\") Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.400 (\(\'\) Upper Ucayali Peru Robera, Robe</td></td<></td></td></td<> | Sex Locality Locality Locality Date of coordinates Coordinates Type Museum Catalogue ".f" Iquitos, NE Iquitos, Loreto, Iv 1884 03°46'S Paratype SNG 39299 ad. Peru Peru 73°15'W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 d.c. Chyavetas, E Chayahuiras, Peru No date Inexact Paratype BMNH 1989.9.20.402 (.c. Upper Ucayali Upper Veru No date Inexact Paratype BMNH 1989.9.20.404 (.c. Ucayali, Peru 16°48'W Amatype BMNH 1989.9.20.400 (.c. Ucayali, Peru 18 vii 1830 04°24'S Paratype BMNH 19 | Sex Locality Locality Date of Coordinates Type Museum Catalogue ".f" Iquitos, NE Iquitos, Loreto, iv 1884 03°46S Paratype SNG 39299 ad. Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48W Paratype BMNH 1989.9.20.402 d. Chyavetas, E Chayahuitas, Operu No date 16°27S Paratype BMNH 1989.9.20.400 d. Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.400 d. Chyavetas Chayahuitas, I867 16°48W Paratype BMNH 1989.9.20.400 d. Loreto, Peru Rocayali 18 vii 1830 04°24'S Paratype NMW | Sex Locality Locality Date of Coordinates Type Museum Catalogue "\fraction" (verbatim) (updated) collection status number ad. Peru 73°46S Paratype SNG 39299 ad. Peru 103°46S Paratype SNG 39299 ad. Peru Loreto, Peru 76°48W AMNH 491022 "\fraction" Chyavetas E Chayahuitas 29 vii 1866 05°27'S Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (\frac{\pi}{3}) Upper Ucayali Peru 18 vii 1830 04°24'S Paratype BMNH 1989.9.20.400 (\frac{\pi}{3}) Borba, Rio Borba, Rio | Sex Locality Locality Date of Coordinates Type Museum Catalogue "\fraction" (verbatim) (updated) collection \$status number ad. Peru Peru 73-16W Portype AMNH 491022 ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76-48W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru Rocajati, Peru Rocajati, Peru 16-48W Paratype BMNH 1989.9.20.402 (\pi) <td>Sex Locality Date of Coordinates Coordinates Type Museum Catalogue "√" Iquitos, NE Iquitos, Loreto, Peru collection collection status number ad. Peru Peru Chyavetas, E Chayahuitas, Chayahuitas, Chyawu 16 vii 1866 05°27'S Holotype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio No date 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio Rore</td> <td>Sex Locality Locality Date of Coordinates Type Museum Catalogue "ζ" Iquitos, NE Iquitos, Loreto, Peru rollection 03-46/S Paratype SNG 39299 ad. Peru Loreto, Peru 16 vii 1866 05-27/S Holotype AMNH 491022 ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype BMNH 1989.20.402 d.3 Otyavetas E Chayahuitas, Peru Rotasani, Peru 76-48 W Paratype BMNH 1989.9.20.402 d.4 Peru Loreto, Peru 10capali, Peru 76-48 W Paratype BMNH 1989.9.20.404 (\$\beta\$) Upper Ucayali, Peru 16 viala 18 f7 65-27 S Paratype BMNH 1989.9.20.404 (\$\beta\$) Chyavetas <td< td=""><td>Sex Locality Locality Date of condinates (verbatim) of Locality Locality Locality Locality Date of lection condinates Type (verbatim) Museum (updated) collection ad. Peru Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 (∅) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.409 (∅) Upper Ucayali Ucayali, Peru 16°48'W 16°48'W Paratype BMNH 1989.9.20.409 (⋄) Ucayali, Peru 1867 6°27'S</td><td>Sex Locality Date (cordinates) of Coordinates status Type (updated) Museum (and addigue) Catalogue (status) "\tightarrow{</td><td>Sex Locality Locality Date of Coordinates (verbatim) Condition Condition Condition Condition Condition Condition Catus Immber ad. Peru Peru Peru 73°15°W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Chyavetas Chayabuitas, 1867 05°27°S Paratype BMNH 1989.9.20.400 ad. Borba, Rio Borba, Rio Borb</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\frace*" (verbadim) (updads.Loreto) collection collection status number ad. Peru Peru (verbalimits) 16 vii 1866 05°27°S Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayabuirias, Orders No date 05°27°S Paratype BMNH 1989.9.20.402 (4) Upper Ucayali No date 10°28°W Paratype BMNH 1989.9.20.404 (5) Upper Ucayali No date 10°28°T Paratype BMNH 1989.9.20.404 (4) Chyavetas Rio Borba 18 vii 1830 04°24°S Paratype</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\2" Iquitos, Ne Iquitos, Loreto, iv 1884 clos-descion <</td><td>Sex Locality Date of Coordinates Type Museum Catalogue ad. (verbatim) (updated) collection 10 346S Paratype SNG 39299 ad. Peru Peru Loreto, Peru 73°15'W Paratype SNG 39299 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (b) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (c) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Par</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "" (verbatim) (updated) collection collection 13-46'S Paratype SNG 39299 ad. Peru Peru Peru Loreto, Peru 76'48'W Paratype AMNH 491022 ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.402 ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali Brazil 18 vi 1830 04°27'S Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali 18 vi 1830 04°27'S<</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\"\"" quintos, Nebatima Locality Locality Locality 10-dection 63°46'S Paratype SNG 39299 "\"" quintos, Nebatimitos, Peru Peru Loceto, Peru 76°48'W Holotype AMNH 491022 "\"" Chyavetas, E Chayabulitas, Chyathulias, Peru 10-roceto, Peru 76°48'W Paratype AMNH 491023 (\"\") Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.400 (\(\'\) Upper Ucayali Peru Robera, Robe</td></td<></td> | Sex Locality Date of Coordinates Coordinates Type Museum Catalogue "√" Iquitos, NE Iquitos, Loreto, Peru collection collection status number ad. Peru Peru Chyavetas, E Chayahuitas, Chayahuitas, Chyawu 16 vii 1866 05°27'S Holotype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio No date 16°48'W Paratype BMNH 1989.9.20.400 (□) Upper Ucayali Upper R Rio Rore | Sex Locality Locality Date of Coordinates Type Museum Catalogue "ζ" Iquitos, NE Iquitos, Loreto, Peru rollection 03-46/S Paratype SNG 39299 ad. Peru Loreto, Peru 16 vii 1866 05-27/S Holotype AMNH 491022 ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76-48 W Paratype BMNH 1989.20.402 d.3 Otyavetas E Chayahuitas, Peru Rotasani, Peru 76-48 W Paratype BMNH 1989.9.20.402 d.4 Peru Loreto, Peru 10capali, Peru 76-48 W Paratype BMNH 1989.9.20.404 (\$\beta\$) Upper Ucayali, Peru 16 viala 18 f7 65-27 S Paratype BMNH 1989.9.20.404 (\$\beta\$) Chyavetas <td< td=""><td>Sex Locality Locality Date of condinates (verbatim) of Locality Locality Locality Locality Date of lection condinates Type (verbatim) Museum (updated) collection ad. Peru Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 (∅) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.409 (∅) Upper Ucayali Ucayali, Peru 16°48'W 16°48'W Paratype BMNH 1989.9.20.409 (⋄) Ucayali, Peru 1867 6°27'S</td><td>Sex Locality Date (cordinates) of Coordinates status Type (updated) Museum (and addigue) Catalogue (status) "\tightarrow{</td><td>Sex Locality Locality Date of Coordinates (verbatim) Condition Condition Condition Condition Condition Condition Catus Immber ad. Peru Peru Peru 73°15°W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Chyavetas Chayabuitas, 1867 05°27°S Paratype BMNH 1989.9.20.400 ad. Borba, Rio Borba, Rio Borb</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\frace*" (verbadim) (updads.Loreto) collection collection status number ad. Peru Peru (verbalimits) 16 vii 1866 05°27°S Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayabuirias, Orders No date 05°27°S Paratype BMNH 1989.9.20.402 (4) Upper Ucayali No date 10°28°W Paratype BMNH 1989.9.20.404 (5) Upper Ucayali No date 10°28°T Paratype BMNH 1989.9.20.404 (4) Chyavetas Rio Borba 18 vii 1830 04°24°S Paratype</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\2" Iquitos, Ne Iquitos, Loreto, iv 1884 clos-descion <</td><td>Sex Locality Date of Coordinates Type Museum Catalogue ad. (verbatim) (updated) collection 10 346S Paratype SNG 39299 ad. Peru Peru Loreto, Peru 73°15'W Paratype SNG 39299 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (b) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (c) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Par</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "" (verbatim) (updated) collection collection 13-46'S Paratype SNG 39299 ad. Peru Peru Peru Loreto, Peru 76'48'W Paratype AMNH 491022 ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.402 ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali Brazil 18 vi 1830 04°27'S Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali 18 vi 1830 04°27'S<</td><td>Sex Locality Date of Coordinates Type Museum Catalogue "\"\"" quintos, Nebatima Locality Locality Locality 10-dection 63°46'S Paratype SNG 39299 "\"" quintos, Nebatimitos, Peru Peru Loceto, Peru 76°48'W Holotype AMNH 491022 "\"" Chyavetas, E Chayabulitas, Chyathulias, Peru 10-roceto, Peru 76°48'W Paratype AMNH 491023 (\"\") Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.400 (\(\'\) Upper Ucayali Peru Robera, Robe</td></td<> | Sex Locality Locality Date of condinates (verbatim) of Locality Locality Locality Locality Date of lection condinates Type (verbatim) Museum (updated) collection ad. Peru Peru Peru 73°15W Holotype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491022 ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°43W Paratype AMNH 491023 vix ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 ad. Peru Lorcio, Peru 76°48'W Paratype BMNH 1989.9.20.402 (∅) Upper Ucayali Upper Rio No date Inexact Paratype BMNH 1989.9.20.409 (∅) Upper Ucayali Ucayali, Peru 16°48'W 16°48'W Paratype BMNH 1989.9.20.409 (⋄) Ucayali, Peru 1867 6°27'S | Sex Locality Date (cordinates) of Coordinates status Type (updated) Museum (and addigue) Catalogue (status) "\tightarrow{ | Sex Locality Locality Date of Coordinates (verbatim) Condition Condition Condition Condition Condition Condition Catus Immber ad. Peru Peru Peru 73°15°W Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.400 ad. Chyavetas Chayabuitas, 1867 05°27°S Paratype BMNH 1989.9.20.400 ad. Borba, Rio Borba, Rio Borb | Sex Locality Date of Coordinates Type Museum Catalogue "\frace*" (verbadim) (updads.Loreto) collection collection status number ad. Peru Peru (verbalimits) 16 vii 1866 05°27°S Holotype AMNH 491022 ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76°48°W Paratype BMNH 1989.9.20.402 (3) Chyavetas, E Chayabuirias, Orders No date 05°27°S Paratype BMNH 1989.9.20.402 (4) Upper Ucayali No date 10°28°W Paratype BMNH 1989.9.20.404 (5) Upper Ucayali No date 10°28°T Paratype BMNH 1989.9.20.404 (4) Chyavetas Rio Borba 18 vii 1830 04°24°S Paratype | Sex Locality Date of Coordinates Type Museum Catalogue "\2" Iquitos, Ne Iquitos, Loreto, iv 1884 clos-descion < | Sex Locality Date of Coordinates Type Museum Catalogue ad. (verbatim) (updated) collection 10 346S Paratype SNG 39299 ad. Peru Peru Loreto, Peru 73°15'W Paratype SNG 39299 ad. Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Peru Loreto, Peru 76°48'W Paratype AMNH 491022 (a) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (b) Chyavetas, E Chayahuitas, Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (c) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Paratype BMNH 1989.9.20.400 (d) Upper Ucayali Upper Rio Rio 76°48'W Par | Sex Locality Date of Coordinates Type Museum Catalogue "" (verbatim) (updated) collection collection 13-46'S Paratype SNG 39299 ad. Peru Peru Peru Loreto, Peru 76'48'W Paratype AMNH 491022 ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype AMNH 491023 vix ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.402 ad. Peru Loreto, Peru 76'48'W Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali Brazil 18 vi 1830 04°27'S Paratype BMNH 1989,920.409 (3) Upper Locayali Upper Locayali 18 vi 1830 04°27'S< | Sex Locality Date of Coordinates Type Museum Catalogue "\"\"" quintos, Nebatima Locality Locality Locality 10-dection 63°46'S Paratype SNG 39299 "\"" quintos, Nebatimitos, Peru Peru Loceto, Peru 76°48'W Holotype AMNH 491022 "\"" Chyavetas, E Chayabulitas, Chyathulias, Peru 10-roceto, Peru 76°48'W Paratype AMNH 491023 (\"\") Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.402 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Upper Cayaflulitas, Peru 10-cayali, Peru 76°48'W Paratype BMNH 1989.9.20.404 (\(\'\) Upper Ucayali Peru Loreto, Peru 76°48'W Paratype BMNH 1989.9.20.400 (\(\'\) Upper Ucayali Peru Robera, Robe |

References

- Chubb, C. (1918) Descriptions of new forms of South American birds. *Bulletin of the British Ornithologist's Club*, 38, 83–87.
- Cory, C.B. & Hellmayr, C.E. (1924) Catalogue of the birds of the Americas. Part 3. Pteroptochidae, Conopophagidae, Formicariidae. *Field Museum of Natural History Publication*, 223, 1–369.
- Hartert, E. (1922) Types of birds in the Tring Museum. B.Types in the general collection. *Novitates Zoologicae*, 29, 365–412.
- Hellmayr, C.E. (1905) Notes on a collection of birds made by Mons. A. Robert in the district of Pará, Brazil. *Novitates Zoologicae*, 12, 269–305.
- ICZN (1999) *International Code of Zoological Nomenclature* (4 ed.). London: The International Trust for Zoological Nomenclature.
- LeCroy, M. & Sloss, R. (2000) Type specimens of birds in the American Museum of Natural History. Part 3. Passeriformes: Eurylaimidae, Dendrocolaptidae, Furnariidae, Formicariidae, Conopophagidae, and Rhinocryptidae. *Bulletin of the American Museum of Natural History*, 257, 1–88.
- Paynter, R.A. & Traylor, M.A. (1991) *Ornithological gazetteer of Brazil* (1 ed.) Boston: Museum of Comparative Zoology.
- Pinto, O.M.O. (1938) Catálogo das aves do Brasil e lista dos exemplares que as representam no Museu Paulista: 1ª. Parte, Aves não Passeriformes e Passeriformes não Oscines excluída a Fam. Tyrannidae e seguintes. *Revista do museu Paulista*, 22, 1–566.
- Pinto, O.M.O. (1978) Novo Catálogo das Aves do Brasil. São Paulo: Empresa Gráfica da Revista dos Tribunais.
- Sclater, P.L. (1857) Descriptions of twelve new or little-known species of the South American family Formicariidae. *Proceedings of the Zoological Society of London*, 25, 129–133.
- Stephens, L. & Traylor, M.A. (1983) *Ornithological gazetteer of Peru* (1 ed.). Boston: Museum of Comparative Zoology. Zimmer, J.T. (1932) Studies on Peruvian birds VII. The genera *Pygiptila, Megastictus, Dysithamnus, Thamnomanes, Cercomacra, and Phlegopsis. American Museum Novitates*, 558, 1–25.
- Zimmer, K. & Isler, M. (2003) Family Thamnophilidae typical antbirds. *In:* J. d. Hoyo, A. Elliot & D.A. Christie (Eds), *Handbook of the Birds of the World: broadbills to tapaculos*. Lynx, London, pp. 448–531.