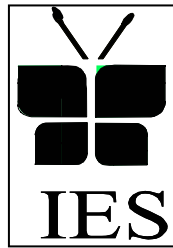


**HOLOTYPES OF REPTILES
IN
THE HERPETOLOGICAL COLLECTION OF
THE INSTITUTE OF ECOLOGY AND SYSTEMATICS,
CUBA**



**ADA R. CHAMIZO LARA, LUIS V. MORENO GARCÍA
&
LOURDES RODRÍGUEZ SCHETTINO**

Instituto de Ecología y Sistemática,
Ministerio de Ciencia, Tecnología y Medio Ambiente

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20 June 2005

INTRODUCTION

The herpetological collection of the Institute of Ecology and Systematics has the majority of the families of amphibians and reptiles living in Cuba and some foreign specimens. This collection is the most important in Cuba not only because of the number of specimens but also owing to its broad taxonomic and geographic representation. Presently, the Institute houses 64 holotypes of endemic Cuba reptiles: 20 species and 44 subspecies of the 142 and 152 Cuban species and subspecies.

Orlando H. Garrido began the type collection in 1967 with the deposition of herpetological specimens in the collections of the Instituto de Biología (IB). The initial types included the holotypes of *Leiocephalus macropus asbolomus*, *Leiocephalus macropus phylax* and *Antillophis andreae melopyrrha*. Prior to 1967, types of Cuban species were deposited in foreign collections, mainly in American museums (Rodríguez Schettino, 2000). In 1972, the Instituto de Biología was split into several institutes: Instituto de Zoología (IZ) and others. Subsequently, the Ministerio de Ciencia, Tecnología y Medio Ambiente created the Instituto de Ecología y Sistemática (IES) in 1987. The collections from the Instituto de Zoología were placed into the IES as Colecciones Zoológicas de la Academia de Ciencias de Cuba (CZACC).

The Cuban herpetofauna is listed in various publications (Schwartz and Thomas, 1975; Garrido and Jaume, 1984; Schwartz and Henderson, 1988, 1991; Powell *et al.*, 1996; Estrada and Ruibal, 1999; Rodríguez Schettino, 2000; Rivalta González, 2000; Rodríguez Schettino and Rivalta González, 2003). However, the critical information on type specimens appears only in the publications of the original description of the species and subspecies. Thus, we wish to summarize the type material held at the reptile collection of the IES and begin here with the holotypes.

The following list includes for each holotype: scientific name; authors; date of publication; original museum number (IB or IZ); type locality; sex of specimen; CZACC new catalogue number; date of collection; and collector(s).

CLASS REPTILIA

ORDER SQUAMATA

FAMILY GEKKONIDAE

Sphaerodactylus armasi Schwartz and Garrido, 1974.

IZ 4089 = CZACC 4.3336.

Cabo Maisí, Baracoa, provincia de Oriente, Cuba. Female. October 6, 1973.

Luis F. de Armas.

Sphaerodactylus celicara Garrido and Schwartz, 1982.

IZ 5613.

Asunción, Maisí, Baracoa, provincia de Oriente, Cuba. Female. May 10,

1979. Orlando H. Garrido.

FAMILY IGUANIDAE

Anolis altitudinalis Garrido, 1985.

CZACC 4.7028.

Alto del Cardero (1050 m), Pico Turquino, Sierra Maestra, Cuba. Male. 26,

1980. Orlando H. Garrido and Reynaldo Carnero.

Anolis anfiloquioi Garrido, 1980.

IZ 4183 = CZACC 4.3445.

Loma frente a la casa de A. Suárez, La Poa, Sabanilla, Baracoa, provincia de Oriente. Male. June 4, 1974. Anfiloquio Suárez.

Anolis bremeri insulaepinorum Garrido, 1972.

IB 1626 = CZACC 4.3137.

Hotel Colony, La Siguanea, Isla de Pinos, Cuba. Male. October 16, 1967.

Orlando H. Garrido

Anolis confusus Estrada and Garrido, 1991.

CARE 60503 = CZACC 4.60503.

Entre Monte Gordo y Vereón, 7 km al NNE de Cabo Cruz, Niquero, provincia de Granma, Cuba. Male. June 29, 1988. Alberto R. Estrada.

Anolis cyanopleurus orientalis Garrido, 1975.

IB 1564 = CZACC 4.3397.

Alrededores de la Punta de Maisí, Baracoa, provincia de Oriente, Cuba. Male. February 10, 1968. Orlando H. Garrido.

Anolis delafuentei Garrido, 1982.

IZ 5907 = CZACC 4.7173.

Topes de Collantes, Sierra de Trinidad, provincia de Sancti Spíritus, Cuba.

Male. May 7, 1979. Alberto Valdés.

Anolis equestris brujensis Garrido, 2001.

IB 2727 = CZACC 4.3775.

Cayo Las Brujas, Caibarién, Trinidad, provincia de Villa Clara, Cuba.

October 19, 1969. Orlando H. Garrido.

Anolis equestris buidei. Schwartz and Garrido, 1972.

IB 1294 = CZACC 4.3193.

Cerca de 0.5 km de Rincón Francés, Península de Hicacos, provincia de

Matanzas, Cuba. February 27, 1967. Orlando H. Garrido, George C.

Gorman and Miguel L. Jaume.

Anolis equestris cincoleguas Garrido, 1981.

IZ 5398 = CZACC 4.4188.

Paso Malo, Cayo Cinco Leguas, provincia de Matanzas, Cuba. Male.

December 14, 1978. Hiram González, Reynaldo Carnero and Orlando H.

Garrido.

Anolis equestris juraguensis Schwartz and Garrido, 1972.

IB 1152 = CZACC 4.3210.

Monte Alto, 3 km al suroeste de Juraguá, provincia de Las Villas, Cuba.

September 19, 1966. Native.

Anolis equestris potior Schwartz and Thomas, 1975.

IZ 3098 = CZACC 4.3351.

Cayo Santa María, Archipiélago de Sabana-Camagüey, provincia de Las

Villas, Cuba. Female. October 19, 1969. Orlando H. Garrido and Luis V.

Moreno.

Anolis equestris verreonensis Schwartz and Garrido, 1972.

IB 488 = CZACC 4.3221.

Verreón, Cabo Cruz, provincia de Oriente, Cuba. Male. March 31, 1965.

Orlando H. Garrido.

Anolis fugitivus Garrido, 1975.

IZ 3854 = CZACC 4.3417.

2 km al Sur del Aserrío de Nuevo Mundo, Moa, provincia de Oriente, Cuba.

Male. June 12, 1972. Orlando H. Garrido.

Anolis guafe Estrada and Garrido, 1991.

CARE 60516 = CZACC 4.60516.

El Guafe (2 km NE de Cabo Cruz), Niquero, provincia de Granma, Cuba.

Male. June 28, 1988. Alberto R. Estrada.

Anolis guazuma Garrido, 1983.

CZACC 4.6128.

La Emajagua, Pico Turquino (unos 600 m), Sierra Maestra, provincia de

Santiago de Cuba, Cuba. Male. April 3, 1980. Raúl Cabrera.

Anolis homolechis turquinensis Garrido, 1973.

IB 2900 = CZACC 4.3271.

Alrededores del Cardero, Pico Turquino, provincia de Oriente, Cuba. Male.

July 7, 1970. Jorge de la Cruz, Raúl González Broche and Israel García.

Anolis incredulus Garrido and Moreno, 1998.

IB 608 = CZACC 4.7394.

Pico Cuba, Macizo del Turquino, Sierra Maestra, provincia de Santiago de

Cuba, Cuba. Female. July, 1963. G. T. Alpañir.

Anolis juangundlachi Garrido, 1975.

IZ 3755 = CZACC 4.3428.

Finca Ceres (Los Montes), 4 km al norte de Carlos Rojas, provincia de

Matanzas, Cuba. Male. June 7, 1972. Orlando H. Garrido.

Anolis jubar albertschwartzi Garrido, 1973.

IB 2621 = CZACC 4.3312.

Tortuguilla, 15 km al este de la Bahía de Guantánamo, provincia de Oriente,

Cuba. Male. May 28, 1969. Raúl González Broche.

Anolis jubar gibarensis Garrido, 1973.

IB 2837 = CZACC 4.3293.

El Catuco, a 2.5 km de Gibara, provincia de Oriente, Cuba. Male. March 10,

1970. Orlando H. Garrido and Luis V. Moreno.

Anolis jubar maisiensis Garrido, 1973.

IB 1524 = CZACC 4.3297.

Punta de Maisí, Baracoa, provincia de Oriente, Cuba. Male. February 10,

1968. Orlando H. Garrido.

Anolis jubar santamariae Garrido, 1973.

IB 2643 = CZACC 4.3325.

Cayo Santa María, Archipiélago de Sabana-Camagüey, Caibarién, provincia

de Las Villas, Cuba. Male. May 28, 1969. Orlando H. Garrido.

Anolis jubar yaguajayensis Garrido, 1973.

IB 2372 = CZACC 4.3288.

El Yagüey, Lomas de Platero, a unos 15 km al este de Caibarién, provincia de Las Villas, Cuba. Male. March 28, 1969. Orlando H. Garrido and Luis V. Moreno.

Anolis litoralis Garrido, 1975.

IZ 3472 = CZACC 4.3390.

Alrededores del aeropuerto de Santiago de Cuba, Versalles, Santiago de Cuba, provincia de Oriente, Cuba. Male. December 4, 1971. Orlando H. Garrido.

Anolis luteogularis calceus Schwartz and Garrido, 1972.

IB 1295 = CZACC 4.3177.

Santo Tomás, Ciénaga de Zapata, provincia de Las Villas, Cuba. Male. February 26, 1967. Orlando H. Garrido.

Anolis luteogularis coctilis Schwartz and Garrido, 1972.

IB 402 = CZACC 4.3163.

Punta del Inglés, Cayo Cantiles, Archipiélago de los Canarreos, provincia de La Habana, Cuba. Male. May 2, 1966. Orlando H. Garrido.

Anolis luteogularis delacruz Schwartz and Garrido, 1972.

IB 1277 = CZACC 4.3155.

Santa Isabel, porción sureste de los dos tercios septentrionales de la Isla de Pinos, al norte de Ciénaga de Lanier, Isla de Pinos, provincia de La Habana, Cuba. Male. March 20, 1967. Gilberto Silva Taboada and Jorge de la Cruz.

Anolis luteogularis jaumei Schwartz and Garrido, 1972.

IB 369 = CZACC 4.3180.

Playa Larga, Ciénaga de Zapata, provincia de Las Villas, Cuba. Male. April 27, 1965. Orlando H. Garrido.

Anolis luteogularis nivevultus Schwartz and Garrido, 1972.

IB 339 = CZACC 4.3144.

El Veral, Península de Guanahacabibes, provincia Pinar del Río, Cuba. Male. November 11, 1965. Israel García and Raúl González Broche.

Anolis luteogularis sanfelipensis Garrido, 1975.

IZ 2972 = CZACC 4.3358.

Cayo Real, Cayos de San Felipe, provincia de Pinar del Río, Cuba. Male. October 17, 1970. Orlando H. Garrido and Luis V. Moreno.

Anolis luteogularis sectilis Schwartz and Garrido, 1972.

IB 388 = CZACC 4.3157.

Pedernales, Isla de Pinos, provincia de La Habana, Cuba. December, 1965.

Orlando H. Garrido.

Anolis paternus pinarensis Garrido, 1975.

IZ 4073 = CZACC 4.3431.

A 5 km de Ciudad Sandino, Guane, provincia de Pinar del Río, Cuba. Male.

August 8, 1973. Fernando Ruiz.

Anolis pigmaequestris Garrido, 1975.

IZ 2884 = CZACC 4.3344.

Localidad tipo: Cayo Francés, Archipiélago de Sabana, Caibarién, provincia de Las Villas, Cuba. Male. October 23, 1971. Orlando H. Garrido.

Anolis pumilus Garrido, 1988.

IZ 4470 = CZACC 4.1676.

Bosque de La Habana, provincia de Ciudad de La Habana, Cuba. Male.

April 23, 1975. Felino González.

Anolis rejeetus Schwartz and Thomas, 1975.

IZ 3917 = CZACC 4.3411.

La Gran Piedra, Santiago de Cuba, provincia de Oriente, Cuba. Male.

August 16, 1972. Fernando Ruiz.

Chamaeleolis barbatus Garrido, 1982.

IZ 5368 = CZACC 4.8600.

Ojo de Agua, Cinco Pesos, 9 km al NW de San Cristóbal, provincia de

Pinar del Río, Cuba. Male. June 25, 1978. Alberto Valdés.

Leiocephalus cubensis minor Garrido, 1970.

IB 2754 = CZACC 4.3120.

Cayo Juan García, Cayos de San Felipe, Archipiélago de los Canarreos, provincia de Pinar del Río, Cuba. Male. March 1, 1970. Orlando H.

Garrido.

Leiocephalus macropus asbolomus Schwartz and Garrido, 1967.

IB 568 = CZACC 4.3068.

El Guayabo, Baracoa, provincia de Oriente, Cuba. Male. September 13, 1965. Orlando H. Garrido.

Leiocephalus macropus felinoi Garrido, 1979.

IZ 4751 = CZACC 4.3453.

Bacunayagua, provincia de Matanzas, Cuba. Male. August 4, 1976. Felino González.

Leiocephalus macropus lenticulatus Garrido, 1973.

IB 2782 = CZACC 4.3247.

Arenal Los Cocos, a 6 km de Gibara, provincia de Oriente, Cuba. Male. March 12, 1970. Luis V. Moreno, Víctor Aguilera and Antonio Ortega.

Leiocephalus macropus phylax Schwartz and Garrido, 1967.

IB 556 = CZACC 4.3064.

Verreón, cerca de Cabo Cruz, provincia de Oriente, Cuba. Male. March 30, 1965. Orlando H. Garrido.

Leiocephalus macropus torrei Garrido, 1979.

IZ 3725 = CZACC 4.3442.

Faldas de la Loma del Río Paredones, San Miguel de Los Baños, provincia de Matanzas, Cuba. Male. June 5, 1972. Felino González and Luis V. Moreno.

Leiocephalus onaneyi Garrido, 1973.

IB 2869 = CZACC 4.3267.

Cima de la Loma de Macambo, entre San Antonio del Sur e Imías, provincia de Oriente, Cuba. Female. June 8, 1970. Onaney Muñiz.

Leiocephalus raviceps delavarai Garrido, 1973.

IB 2774 = CZACC 4.3238.

Arenal Los Cocos, a 6 km de Gibara, provincia de Oriente, Cuba. Male. March 12, 1970. Luis V. Moreno, Víctor Aguilera and Antonio Ortega.

Leiocephalus raviceps jaumei Schwartz and Garrido, 1968.

IB 1349 = CZACC 4.3083.

San Waldo, 4 km al norte de Cortés, en la carretera entre Cortés e Isabel Rubio, provincia de Pinar del Río, Cuba. Male. MARCH 6, 1967. Orlando H. Garrido and Miguel L. Jaume.

Leiocephalus stictigaster celeustes Schwartz and Garrido, 1968.

IB 1182 = CZACC 4.3091.

Contramaestre, provincia de Oriente, Cuba. Male. May 1947. Native.

Leiocephalus stictigaster gibarensis Schwartz and Garrido 1968.

IB 1236 = CZACC 4.3095.

Gibara, provincia de Oriente, Cuba. Male. March 13, 1967. Orlando H. Garrido and Miguel L. Jaume.

Leiocephalus stictigaster lipomator Schwartz and Garrido, 1968.

IB 1230 = CZACC 4.3087.

3 km al oeste de Santa Clara, provincia de Las Villas, Cuba. Male. March 12, 1967. Orlando H. Garrido and Miguel L. Jaume.

Leiocephalus stictigaster naranjoi Schwartz and Garrido, 1968.

IB 200 = CZACC 4.3445.

Los Biasmones, Casilda, provincia de Las Villas, Cuba. Male. March 1965. Telmo Naranjo Casadevall.

Leiocephalus stictigaster septentrionalis Garrido, 1975.

IZ 3425 = CZACC 4.3369.

Cayo Santa María, Archipiélago de Sabana-Camagüey, provincia de Las Villas, Cuba. Female. October 27, 1971. Orlando H. Garrido.

FAMILY TEIIDAE

Ameiva auberi extorris Schwartz, 1970.

IB 52 = CZACC 4.3125.

Cayuelo de La Vela, provincia de Las Villas, Cuba. Male. March 11, 1965. Orlando H. Garrido.

Ameiva auberi garridoi Schwartz, 1970.

IB 96 = CZACC 4.3129.

Cuatro Bocas, Sagua La Grande, provincia de Las Villas, Cuba. Male. May 2, 1966. P. Saavedra.

Ameiva auberi peradusta Schwartz, 1970.

IB 85 = CZACC 4.3133.

Juraguá, provincia de Las Villas, Cuba. Male. May 15, 1966. Orlando H. Garrido.

Ameiva auberi orlandoi Schwartz and McCoy, 1975.

IZ 3427 = CZACC 4.3378.

Cayo Santa María, Archipiélago de Sabana-Camagüey, provincia de Las Villas, Cuba. Male. October 27, 1971. Orlando H. Garrido.

Ameiva auberi sanfelipensis Garrido, 1975.

IB 2987 = CZACC 4.3383.

Cayo Real, Cayos de San Felipe, provincia de Pinar del Río, Cuba. Male. October 15, 1970. Orlando H. Garrido.

Ameiva auberi nigriventris Gali and Garrido, 1987.

IZ 5778 = CZACC 4.3906.

Afuera de Cayo Piedras, Isla de la Juventud. Male. May 23, 1969. Miguel L. Jaume and Luis V. Moreno.

Ameiva auberi schwartzi Gali and Garrido, 1987.

IZ 4389 = CZACC 4.4167.

Henequenera de Mariel, Zona Mosquito, provincia de Pinar del Río, Cuba. Male. May 12, 1975. Felino González.

SERPENTES

FAMILY COLUBRIDAE

Antillophis andreae melopyrrha Thomas and Garrido, 1967.

IB 1080 = CZACC 4.3071.

Punta del Negrito, Cayo Cantiles, Archipiélago de los Canarreos, provincia de La Habana, Cuba. April 30, 1966. Orlando H. Garrido.

Antillophis andreae morenoi Garrido, 1973.

IB 2737 = CZACC 4.3253.

Cayo Santa María (Archipiélago de Sabana-Camagüey), provincia de Las Villas, Cuba. Female. October 16, 1969. Luis V. Moreno.

Arrhyton ainictum Schwartz and Garrido, 1981.

IZ 4256 = CZACC 4.4619

Cueva del 18, Francisco, provincia de Camagüey, Cuba. July 30, 1974. Lorenzo Zayas.

Family TROPIDOPHIDAE

Tropidophis galacelidus Schwartz and Garrido, 1975.

IZ 4052 = CZACC 4.3435.

Cerca del Cafetal de Gaviña, Sierra de Trinidad, provincia de Las Villas, Cuba. Male. July 9, 1973. Pastor Alayo.

Tropidophis morenoi Hedges, Garrido and Díaz, 2001.

IB 2943.

Dolinas de Cueva de Humboldt, Caguanes, provincia de Villa Clara, Cuba. Female. 1969. José Salas.

REFERENCES

Estrada, A. R. and R. Ruibal. 1999. A review of Cuban herpetology. Pp. 31-62. In *Caribbean Amphibians and Reptiles* (B. J. Crother, ed.) Academic Press, San Diego, California.

Garrido, O. H. and M. L. Jaume. 1984. Catálogo descriptivo de los anfibios y reptiles de Cuba. *Doñana, Acta Vertebrata* 11(2):5-128.

Powell, R., R. W. Henderson, K. Adler and H. A. Dundee. 1996. An annotated checklist of West Indian amphibians and reptiles. Pp. 51-93. In *Contribution to West Indian Herpetology; A Tribute to Albert Schwartz* (R. Powell and R. W. Henderson, eds.) Society for the Study of Amphibians and Reptiles, Ithaca, New York. *Contributions to Herpetology* 12.

Rivalta González, V. 2000. Checklist and bibliography of Cuban amphibians (Anura). *Smithsonian Herpetol. Info. Serv.* 124:1-20.

Rodríguez Schettino, L. 2000. Cuban reptiles: Original citations, holotypes, and geographic range. *Smithsonian Herpetol. Info. Serv.* 125:1-26.

Rodríguez Schettino, L. and V. Rivalta González. 2003. Lista de especies. Pp. 162-165. En *Anfibios y Reptiles de Cuba*. (L. Rodríguez Schettino, ed.) UPC Print, Vaasa, Finland.

Schwartz, A. and R. W. Henderson. 1988. West Indian amphibians and reptiles: a check-list. *Milwaukee Public. Mus. Contrib. Biol. Geol.* 74:1-264.

Schwartz, A. and R. W. Henderson. 1991. *Amphibians and reptiles of the West Indies. Descriptions, distributions and natural history*. University of Florida Press, Gainesville,

Schwartz, A. and R. Thomas. 1975. A check-list of West Indian amphibians and reptiles. *Carnegie Mus. Nat. Hist. Special Publ.* 1:1-216.