

**The Project Gutenberg eBook of A New Hylid Frog from Eastern Mexico,
by Edward Harrison Taylor**

This ebook is for the use of anyone anywhere in the United States and most other parts of the world at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this ebook or online at www.gutenberg.org. If you are not located in the United States, you'll have to check the laws of the country where you are located before using this eBook.

Title: A New Hylid Frog from Eastern Mexico

Author: Edward Harrison Taylor

Release Date: November 15, 2010 [EBook #34326]

Language: English

Credits: Produced by Chris Curnow, Joseph Cooper, Josephine Paolucci and the Online Distributed Proofreading Team at <https://www.pgdp.net>.

*** START OF THE PROJECT GUTENBERG EBOOK A NEW HYLID FROG FROM EASTERN
MEXICO ***

A New Hylid Frog from Eastern Mexico

BY

EDWARD H. TAYLOR

University of Kansas Publications Museum of Natural History

Volume 1, No. 15, pp. 257-264, 1 fig. in text
August 16, 1948

University of Kansas
LAWRENCE
1948

UNIVERSITY OF KANSAS PUBLICATIONS, MUSEUM OF NATURAL HISTORY
Editors: E. Raymond Hall, Chairman; H. H. Lane, Edward H. Taylor

Volume 1, No. 15, pp. 257-264, 1 fig. in text
August 16, 1948

UNIVERSITY OF KANSAS
Lawrence, Kansas

PRINTED BY
FERD VOILAND, JR., STATE PRINTER
TOPEKA, KANSAS
1948

22-3339

A New Hylid Frog from Eastern Mexico

[Pg 259]

By

EDWARD H. TAYLOR

A small collection of Mexican reptiles and amphibians recently acquired by the University of Kansas Natural History Museum contains five specimens of a species of the genus *Hyla* (*sensu lato*) which is here described as new.

Hyla proboscidea sp. nov.

Type.—University of Kansas Museum of Natural History, No. 23626, collected 2 km. west of Jico,

Veracruz, Mexico, at an elevation of 4,200 ft., Oct. 28, 1946, by Walter W. Dalquest.

Paratypes.—Nos. 23624, 23625, 23627, 23628, collected with the type.

Diagnosis.—A medium sized member of the genus with known maximum length of male, 57 mm. Canthus rostralis well defined; tip of snout with a bulbous projection; fingers more than one-third webbed, foot nearly completely webbed; tympanum distinct; skin smooth above, granular below; very prominent inner metatarsal tubercle, small outer tubercle; tibiotarsal articulation reaches to nostril; a well-defined outer tarsal fold; anal opening ventral, covered by a free triangular flap; pupil of eye horizontal.

Description of the type.—Head longer than broad, the distance between the eye and nostril slightly greater than distance between nostril and tip of snout; canthus rostralis sharply defined, continued to above nostril; upper part of loreal region sloping abruptly, lower part sloping more gently to edge of lip; area in front of nostril somewhat swollen, the nostril large, directed strongly backward; tip of snout forming a short rounded proboscis; upper jaw rather strongly overhanging lower jaw.

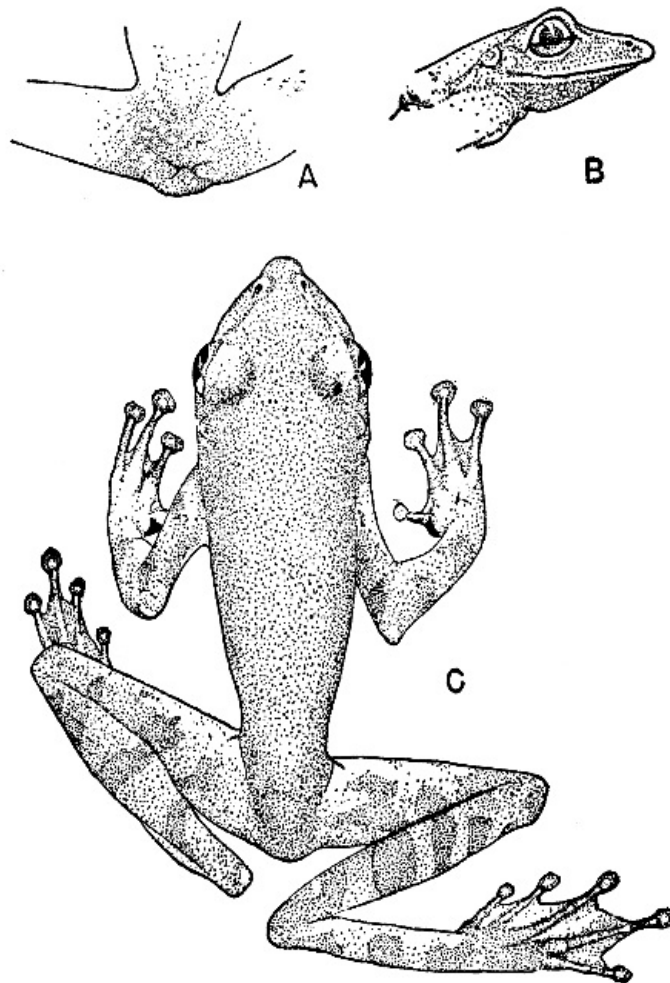
Width of an upper eyelid contained in interorbital distance about 1-1/3 times; horizontal diameter of eye about equal to distance between eye and nostril, about 1-1/3 times diameter of tympanum; tympanum distinct, its distance from orbit equal to its diameter, overhung by a glandular fold running back from eye.

Choanae large; vomerine teeth in two elevated patches which lie between, and reach the posterior level, of choanae, the patches closer to each other than to choanae; tongue rather small, subcircular, not or but very indistinctly notched behind, not at all free behind; opening to vocal sacs behind level of tongue, the openings a short slit directed backwards. (Vocal sacs not evident externally in type or paratypes.)

Skin of dorsal surfaces generally smooth (under magnification surface minutely corrugated and wrinkled); ventral surface of abdomen, the thighs, and lower part of lateral surface of body strongly granulate, the granules unequal in size and elevation; breast, chin, and under side of arm with sparse granules or tubercles.

Anal opening ventral, covered by a small, free, triangular flap; a small thickened fold, slightly free, on each side of anus partly covered by triangular flap.

[Pg 260]



Measurements (in mm.).—Snout to vent, 58; leg, 86; head length, 20; head width, 18.6.

Arms rather short, upper arm slender, forearm much thickened; a small axillary web present; disks on three outer fingers distinctly larger than tympanum, of first finger equal to or somewhat smaller than tympanum; outer fingers, between one-third and one-half webbed; on inner fingers

webbing less than one-third; first finger more or less opposed to other three, its base widened, and the upper surface covered by a large patch of minute dark, horn-colored nuptial asperities, that extend to near the terminal disk; subarticular tubercles strongly elevated with numerous supernumerary tubercles on palm; a somewhat enlarged elevated palmar tubercle; under surface of forearm with a row of distinct tubercles; other smaller scattered granules present. Toes more than four-fifths webbed, the membrane reaching the base of the terminal disks, on one side at least, of all toes save fourth; subarticular tubercles strongly elevated, with numerous supernumerary tubercles on sole; a large elevated inner metatarsal tubercle; a small outer tubercle; a continuous, well-defined, tarsal fold extending entire length of tarsus. Tibiotarsal articulation reaches nostril when leg is brought forward.

[Pg 261]

Color and marking.—General color of type (preserved in formalin, then transferred to alcohol) dull grayish purple, darker anteriorly and somewhat lighter and more mottled posteriorly; color very much lighter on sides with a few cream, dark-edged spots in groin and on sides of abdomen; front and back surfaces of thigh and shank with some darker and lighter flecking that is continued more or less on the foot. When submerged in water, very dim dark spots or bars visible on limbs; ventral surface dirty brownish flesh, without markings.

Variation.—The series consists of five adult male specimens. It is presumed that the female is considerably larger, and may lack the nasal proboscis which I suspect is a secondary sexual character.

There are some differences in the shade of coloring in the preserved specimens, some being darker, some lighter than the type. In two the lateral dark-edged, cream spots extend to the axilla, and the light and dark markings on the front and back surfaces of the leg are much more distinct in most of the specimens than in the type. When the specimens are submerged in water, the black bars on the limbs are evident in all specimens. The tympanum is sometimes darker, sometimes lighter than its surroundings.

In the field notes of Mr. Dalquest I find the statement that the color in life is bright yellow, which presumably applies to all of the specimens. No trace of this color remains at the present time.

The ventral granules of some of the paratypes are very unequal in elevation, some being elongated, nipplelike.

The following table gives the variation in measurements of the type and paratypes:

Measurements of *Hyla proboscidea* in mm.

	Snout to vent	Head length	Head width	Arm	Leg	Foot and longest toe	Eye diameter
2362658	20	18.6	29	86	39	5	
2362556	19	18	29	81	37	5	
2362753	18.5	17	30	81	35	5	
2362450	16.8	15.5	26	70	29.8	5	
2362850	17	16	28	71	30	5	

Relationship.—It would appear that the relationship of this species is with *Hyla bistincta*, a widespread Mexican species likewise occurring in the same general area but at a much higher elevation. It also has an elongated flap which carries the anal opening nearly to the level of venter but the terminal part lacks the triangular flap. There is no prolongation of the snout tip. There are also numerous other differences, so that it would be difficult to confuse the two forms.

[Pg 262]

Remarks.—This adds another very distinctive species to the Veracruzian fauna. Despite the fact that this state has probably been explored at greater length than any other Mexican state it still is a likely place for the discovery of novelties.

Transmitted April 8, 1948.

*** END OF THE PROJECT GUTENBERG EBOOK A NEW HYLID FROG FROM EASTERN MEXICO ***

Updated editions will replace the previous one—the old editions will be renamed.

Creating the works from print editions not protected by U.S. copyright law means that no one owns a United States copyright in these works, so the Foundation (and you!) can copy and distribute it in the United States without permission and without paying copyright royalties. Special rules, set forth in the General Terms of Use part of this license, apply to copying and distributing Project Gutenberg™ electronic works to protect the PROJECT GUTENBERG™ concept and trademark. Project Gutenberg is a registered trademark, and may not be used if you charge for an eBook, except by following the terms of the trademark license, including paying royalties for use of the Project Gutenberg trademark. If you do not charge anything for copies of this eBook, complying with the trademark license is very easy. You may use this eBook for nearly any purpose such as creation of derivative works, reports, performances and research. Project Gutenberg eBooks may be modified and printed and given away—you may do practically ANYTHING in the United States with eBooks not protected by U.S. copyright law. Redistribution

is subject to the trademark license, especially commercial redistribution.

START: FULL LICENSE

THE FULL PROJECT GUTENBERG LICENSE

PLEASE READ THIS BEFORE YOU DISTRIBUTE OR USE THIS WORK

To protect the Project Gutenberg™ mission of promoting the free distribution of electronic works, by using or distributing this work (or any other work associated in any way with the phrase “Project Gutenberg”), you agree to comply with all the terms of the Full Project Gutenberg™ License available with this file or online at www.gutenberg.org/license.

Section 1. General Terms of Use and Redistributing Project Gutenberg™ electronic works

1.A. By reading or using any part of this Project Gutenberg™ electronic work, you indicate that you have read, understand, agree to and accept all the terms of this license and intellectual property (trademark/copyright) agreement. If you do not agree to abide by all the terms of this agreement, you must cease using and return or destroy all copies of Project Gutenberg™ electronic works in your possession. If you paid a fee for obtaining a copy of or access to a Project Gutenberg™ electronic work and you do not agree to be bound by the terms of this agreement, you may obtain a refund from the person or entity to whom you paid the fee as set forth in paragraph 1.E.8.

1.B. “Project Gutenberg” is a registered trademark. It may only be used on or associated in any way with an electronic work by people who agree to be bound by the terms of this agreement. There are a few things that you can do with most Project Gutenberg™ electronic works even without complying with the full terms of this agreement. See paragraph 1.C below. There are a lot of things you can do with Project Gutenberg™ electronic works if you follow the terms of this agreement and help preserve free future access to Project Gutenberg™ electronic works. See paragraph 1.E below.

1.C. The Project Gutenberg Literary Archive Foundation (“the Foundation” or PGLAF), owns a compilation copyright in the collection of Project Gutenberg™ electronic works. Nearly all the individual works in the collection are in the public domain in the United States. If an individual work is unprotected by copyright law in the United States and you are located in the United States, we do not claim a right to prevent you from copying, distributing, performing, displaying or creating derivative works based on the work as long as all references to Project Gutenberg are removed. Of course, we hope that you will support the Project Gutenberg™ mission of promoting free access to electronic works by freely sharing Project Gutenberg™ works in compliance with the terms of this agreement for keeping the Project Gutenberg™ name associated with the work. You can easily comply with the terms of this agreement by keeping this work in the same format with its attached full Project Gutenberg™ License when you share it without charge with others.

1.D. The copyright laws of the place where you are located also govern what you can do with this work. Copyright laws in most countries are in a constant state of change. If you are outside the United States, check the laws of your country in addition to the terms of this agreement before downloading, copying, displaying, performing, distributing or creating derivative works based on this work or any other Project Gutenberg™ work. The Foundation makes no representations concerning the copyright status of any work in any country other than the United States.

1.E. Unless you have removed all references to Project Gutenberg:

1.E.1. The following sentence, with active links to, or other immediate access to, the full Project Gutenberg™ License must appear prominently whenever any copy of a Project Gutenberg™ work (any work on which the phrase “Project Gutenberg” appears, or with which the phrase “Project Gutenberg” is associated) is accessed, displayed, performed, viewed, copied or distributed:

This eBook is for the use of anyone anywhere in the United States and most other parts of the world at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at www.gutenberg.org. If you are not located in the United States, you will have to check the laws of the country where you are located before using this eBook.

1.E.2. If an individual Project Gutenberg™ electronic work is derived from texts not protected by U.S. copyright law (does not contain a notice indicating that it is posted with permission of the copyright holder), the work can be copied and distributed to anyone in the United States without paying any fees or charges. If you are redistributing or providing access to a work with the phrase “Project Gutenberg” associated with or appearing on the work, you must comply either with the requirements of paragraphs 1.E.1 through 1.E.7 or obtain permission for the use of the work and the Project Gutenberg™ trademark as set forth in paragraphs 1.E.8 or 1.E.9.

1.E.3. If an individual Project Gutenberg™ electronic work is posted with the permission of the copyright holder, your use and distribution must comply with both paragraphs 1.E.1 through 1.E.7 and any additional terms imposed by the copyright holder. Additional terms will be linked

to the Project Gutenberg™ License for all works posted with the permission of the copyright holder found at the beginning of this work.

1.E.4. Do not unlink or detach or remove the full Project Gutenberg™ License terms from this work, or any files containing a part of this work or any other work associated with Project Gutenberg™.

1.E.5. Do not copy, display, perform, distribute or redistribute this electronic work, or any part of this electronic work, without prominently displaying the sentence set forth in paragraph 1.E.1 with active links or immediate access to the full terms of the Project Gutenberg™ License.

1.E.6. You may convert to and distribute this work in any binary, compressed, marked up, nonproprietary or proprietary form, including any word processing or hypertext form. However, if you provide access to or distribute copies of a Project Gutenberg™ work in a format other than “Plain Vanilla ASCII” or other format used in the official version posted on the official Project Gutenberg™ website (www.gutenberg.org), you must, at no additional cost, fee or expense to the user, provide a copy, a means of exporting a copy, or a means of obtaining a copy upon request, of the work in its original “Plain Vanilla ASCII” or other form. Any alternate format must include the full Project Gutenberg™ License as specified in paragraph 1.E.1.

1.E.7. Do not charge a fee for access to, viewing, displaying, performing, copying or distributing any Project Gutenberg™ works unless you comply with paragraph 1.E.8 or 1.E.9.

1.E.8. You may charge a reasonable fee for copies of or providing access to or distributing Project Gutenberg™ electronic works provided that:

- You pay a royalty fee of 20% of the gross profits you derive from the use of Project Gutenberg™ works calculated using the method you already use to calculate your applicable taxes. The fee is owed to the owner of the Project Gutenberg™ trademark, but he has agreed to donate royalties under this paragraph to the Project Gutenberg Literary Archive Foundation. Royalty payments must be paid within 60 days following each date on which you prepare (or are legally required to prepare) your periodic tax returns. Royalty payments should be clearly marked as such and sent to the Project Gutenberg Literary Archive Foundation at the address specified in Section 4, “Information about donations to the Project Gutenberg Literary Archive Foundation.”
- You provide a full refund of any money paid by a user who notifies you in writing (or by e-mail) within 30 days of receipt that s/he does not agree to the terms of the full Project Gutenberg™ License. You must require such a user to return or destroy all copies of the works possessed in a physical medium and discontinue all use of and all access to other copies of Project Gutenberg™ works.
- You provide, in accordance with paragraph 1.F.3, a full refund of any money paid for a work or a replacement copy, if a defect in the electronic work is discovered and reported to you within 90 days of receipt of the work.
- You comply with all other terms of this agreement for free distribution of Project Gutenberg™ works.

1.E.9. If you wish to charge a fee or distribute a Project Gutenberg™ electronic work or group of works on different terms than are set forth in this agreement, you must obtain permission in writing from the Project Gutenberg Literary Archive Foundation, the manager of the Project Gutenberg™ trademark. Contact the Foundation as set forth in Section 3 below.

1.F.

1.F.1. Project Gutenberg volunteers and employees expend considerable effort to identify, do copyright research on, transcribe and proofread works not protected by U.S. copyright law in creating the Project Gutenberg™ collection. Despite these efforts, Project Gutenberg™ electronic works, and the medium on which they may be stored, may contain “Defects,” such as, but not limited to, incomplete, inaccurate or corrupt data, transcription errors, a copyright or other intellectual property infringement, a defective or damaged disk or other medium, a computer virus, or computer codes that damage or cannot be read by your equipment.

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES - Except for the “Right of Replacement or Refund” described in paragraph 1.F.3, the Project Gutenberg Literary Archive Foundation, the owner of the Project Gutenberg™ trademark, and any other party distributing a Project Gutenberg™ electronic work under this agreement, disclaim all liability to you for damages, costs and expenses, including legal fees. YOU AGREE THAT YOU HAVE NO REMEDIES FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE PROVIDED IN PARAGRAPH 1.F.3. YOU AGREE THAT THE FOUNDATION, THE TRADEMARK OWNER, AND ANY DISTRIBUTOR UNDER THIS AGREEMENT WILL NOT BE LIABLE TO YOU FOR ACTUAL, DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE OR INCIDENTAL DAMAGES EVEN IF YOU GIVE NOTICE OF THE POSSIBILITY OF SUCH DAMAGE.

1.F.3. LIMITED RIGHT OF REPLACEMENT OR REFUND - If you discover a defect in this electronic work within 90 days of receiving it, you can receive a refund of the money (if any) you paid for it by sending a written explanation to the person you received the work from. If you received the work on a physical medium, you must return the medium with your written

explanation. The person or entity that provided you with the defective work may elect to provide a replacement copy in lieu of a refund. If you received the work electronically, the person or entity providing it to you may choose to give you a second opportunity to receive the work electronically in lieu of a refund. If the second copy is also defective, you may demand a refund in writing without further opportunities to fix the problem.

1.F.4. Except for the limited right of replacement or refund set forth in paragraph 1.F.3, this work is provided to you 'AS-IS', WITH NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

1.F.5. Some states do not allow disclaimers of certain implied warranties or the exclusion or limitation of certain types of damages. If any disclaimer or limitation set forth in this agreement violates the law of the state applicable to this agreement, the agreement shall be interpreted to make the maximum disclaimer or limitation permitted by the applicable state law. The invalidity or unenforceability of any provision of this agreement shall not void the remaining provisions.

1.F.6. INDEMNITY - You agree to indemnify and hold the Foundation, the trademark owner, any agent or employee of the Foundation, anyone providing copies of Project Gutenberg™ electronic works in accordance with this agreement, and any volunteers associated with the production, promotion and distribution of Project Gutenberg™ electronic works, harmless from all liability, costs and expenses, including legal fees, that arise directly or indirectly from any of the following which you do or cause to occur: (a) distribution of this or any Project Gutenberg™ work, (b) alteration, modification, or additions or deletions to any Project Gutenberg™ work, and (c) any Defect you cause.

Section 2. Information about the Mission of Project Gutenberg™

Project Gutenberg™ is synonymous with the free distribution of electronic works in formats readable by the widest variety of computers including obsolete, old, middle-aged and new computers. It exists because of the efforts of hundreds of volunteers and donations from people in all walks of life.

Volunteers and financial support to provide volunteers with the assistance they need are critical to reaching Project Gutenberg™'s goals and ensuring that the Project Gutenberg™ collection will remain freely available for generations to come. In 2001, the Project Gutenberg Literary Archive Foundation was created to provide a secure and permanent future for Project Gutenberg™ and future generations. To learn more about the Project Gutenberg Literary Archive Foundation and how your efforts and donations can help, see Sections 3 and 4 and the Foundation information page at www.gutenberg.org.

Section 3. Information about the Project Gutenberg Literary Archive Foundation

The Project Gutenberg Literary Archive Foundation is a non-profit 501(c)(3) educational corporation organized under the laws of the state of Mississippi and granted tax exempt status by the Internal Revenue Service. The Foundation's EIN or federal tax identification number is 64-6221541. Contributions to the Project Gutenberg Literary Archive Foundation are tax deductible to the full extent permitted by U.S. federal laws and your state's laws.

The Foundation's business office is located at 809 North 1500 West, Salt Lake City, UT 84116, (801) 596-1887. Email contact links and up to date contact information can be found at the Foundation's website and official page at www.gutenberg.org/contact

Section 4. Information about Donations to the Project Gutenberg Literary Archive Foundation

Project Gutenberg™ depends upon and cannot survive without widespread public support and donations to carry out its mission of increasing the number of public domain and licensed works that can be freely distributed in machine-readable form accessible by the widest array of equipment including outdated equipment. Many small donations (\$1 to \$5,000) are particularly important to maintaining tax exempt status with the IRS.

The Foundation is committed to complying with the laws regulating charities and charitable donations in all 50 states of the United States. Compliance requirements are not uniform and it takes a considerable effort, much paperwork and many fees to meet and keep up with these requirements. We do not solicit donations in locations where we have not received written confirmation of compliance. To SEND DONATIONS or determine the status of compliance for any particular state visit www.gutenberg.org/donate.

While we cannot and do not solicit contributions from states where we have not met the solicitation requirements, we know of no prohibition against accepting unsolicited donations from donors in such states who approach us with offers to donate.

International donations are gratefully accepted, but we cannot make any statements concerning

tax treatment of donations received from outside the United States. U.S. laws alone swamp our small staff.

Please check the Project Gutenberg web pages for current donation methods and addresses. Donations are accepted in a number of other ways including checks, online payments and credit card donations. To donate, please visit: www.gutenberg.org/donate

Section 5. General Information About Project Gutenberg™ electronic works

Professor Michael S. Hart was the originator of the Project Gutenberg™ concept of a library of electronic works that could be freely shared with anyone. For forty years, he produced and distributed Project Gutenberg™ eBooks with only a loose network of volunteer support.

Project Gutenberg™ eBooks are often created from several printed editions, all of which are confirmed as not protected by copyright in the U.S. unless a copyright notice is included. Thus, we do not necessarily keep eBooks in compliance with any particular paper edition.

Most people start at our website which has the main PG search facility: www.gutenberg.org.

This website includes information about Project Gutenberg™, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks.