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Collection Overview

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| Repository: | Smithsonian Institution Archives, Washington, D.C., osiaref@si.edu |
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Administrative Information

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Descriptive Entry

This accession consists of papers documenting the career of W. Ronald Heyer, Research Zoologist in the Division of Amphibians and Reptiles at the National Museum of Natural History (NMNH). Heyer's research focuses on the systematics, evolution, and biogeography of Neotropical amphibians. Materials include correspondence, presentations, grant proposals, data, publications, books, maps, posters, scientific illustrations, plates, photographs, negatives, slides, transparencies, and audiovisual materials. Some materials are in electronic format. Some materials were created prior to his tenure at NMNH.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Amphibians
- Biogeography
- Biology -- Classification
- Evolution (Biology)
- Herpetologists
- Herpetology
- Zoology -- Research

Types of Materials:

Audiotapes
Black-and-white negatives
Black-and-white photographs
Black-and-white transparencies
Books
Color photographs
Color transparencies
Compact discs
Electronic records
Floppy disks
Manuscripts
Maps
Plates (illustrations)
Posters
Scientific illustrations
Videotapes

Names:

Heyer, W. Ronald
National Museum of Natural History (U.S.) Division of Amphibians and Reptiles

Geographic Names:

Latin America

Container Listing

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Correspondence

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- Research and Manuscripts
- Box 2 of 15 Data for presentation at Annual Meeting of the Society of Integrative and Comparative Biology, Patras, Greece, 2002
- Box 2 of 15 *Leptodactylus troglodytes* call analysis for 1995 manuscript
- Box 2 of 15 Presentation: 246 years of Nomenclatural Novelties in the Genus *Leptodactylus*: Past, Present, Future
- Box 2 of 15 Brazilian tadpoles, data and illustrations
- Box 2 of 15 Brazilian tadpoles, references
- Box 2 of 15 *Leptodactylus* gazetteer
- Box 2 of 15 Smithsonian Amphibian Initiative, 2008
- Box 2 of 15 Texas collections trip, March 2010
- Box 2 of 15 National Public Radio "Talk of the Nation: Science Friday" presentation on declining amphibian problem, 5/16/1997 (audiocassette)

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- Box 3 of 15 *Leptodactylus validus* manuscript and data, Proceedings of the Biological Society of Washington, 125(2): 276-294, 2012
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : A-B
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : C-E
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : F-H
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : I-Iutzi
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : *macroblepharus-notoaktites*

- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- :
occidentalis-pentadactylus
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : *perlaevis*-R
- Box 3 of 15 *Leptodactylus* annotated bibliography, circa 1965- : *S-wuchereri*
- Box 3 of 15 *L. fuscus* group standards
- Box 3 of 15 *L. latrans* group standards
- Box 3 of 15 *L. pentadactylus* group standards
- Box 3 of 15 Variation, Systematics, and Relationships of the *Leptodactylus bolivianus*
Complex, 2011 (final draft)
- Box 3 of 15 Paulo Emilio Vanzolini background obituary materials and drafts, 2013
- Box 3 of 15 *L. pentadactylus* biogeography project: Statistics and data
- Box 3 of 15 *L. insularum* manuscript, Proceedings of the Biological Society of
Washington, 126 (3): 204-233, 2013 (2 folders)

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- Box 4 of 15 *L. insularum* bibliography, Proceedings of the Biological Society of
Washington, 126 (3): 204-233, 2013
- Box 4 of 15 FAPESP (Sao Paulo Research Foundation) proposal, *Leptodactylus* at the
Museu de Zoologia da Universidade de Sao Paulo (MZUSP), 2010
- Box 4 of 15 Variation and taxonomic clarification of the large species of the *Leptodactylus*
pentadactylus species group (Amphibia: Leptodactylidae) from Middle
America, northern South America, and Amazonia, Arquivos de Zoologia,
37(3): 269-348, 2005 - Measurement data coding
- Box 4 of 15 *Leptodactylus pentadactylus*, Catalogue of American Amphibians and
Reptiles, (888): 1-47, 2011 - Correspondence, figures, etc.
- Box 4 of 15 *Leptodactylus pentadactylus*, Catalogue of American Amphibians and
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- Box 4 of 15 *L. latrans* group data sheets
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- Box 5 of 15 *L. latrans* complex, photographs/data - Argentina: Tucuman

- Box 5 of 15 *L. latrans* complex, data sheets - Argentina: Buenos Aires, Chaco, Cordoba, Corrientes, Entre Rios, Formosa, Jujuy, La Pampa, Mendoza, Misiones, Salta, San Juan, San Luis, Santa Fe, Santiago del Estero, Tucuman
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- Box 7 of 15 *L. latrans* complex, data sheets - Brasil: Rio de Janeiro, Rio Grande do Sul, Rondonia, Roraima, Santa Catarina, Sao Paulo, Sergipe, Tocantins
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- Box 7 of 15 *L. latrans* complex, data sheets - Guyana; Venezuela: Apure, Bolivar, Guarico
- Box 7 of 15 *L. latrans* complex, photographs/data - Trinidad
- Box 7 of 15 *L. latrans* complex, photographs/data - Paraguay: Alto Paraguay, Amambay, Boqueron, Canindeyu, Central, Cordillera, Itapua
- Box 7 of 15 *L. latrans* complex, photographs/data - Paraguay: Paraguari, Presidente Hayes, San Pedro
- Box 7 of 15 *L. latrans* complex, photographs/data - Uruguay: Canelones, Maldonado, Rivera, Rocha, Treinta y Tres
- Box 7 of 15 *L. latrans* complex, data sheets - Paraguay, Uruguay
- Box 7 of 15 *L. latrans* complex - Preliminary discriminant function analyses
- Box 7 of 15 *L. latrans* complex - Miscellaneous data
- Box 7 of 15 *L. latrans* complex - Analyses from digital photographs (as *L. ocellatus*)
- Box 7 of 15 *L. latrans* complex - Regional analyses of morphological data manuscript
- Box 7 of 15 *L. latrans* complex - Discriminant function analyses data, draft, regional samples
- Box 7 of 15 *L. latrans* complex - Manuscript, various documents

Box 8

- Box 8 of 15 Slides of Brazilian field work sites and animals
- Box 8 of 15 Dissertation plates
- Box 8 of 15 Publication illustrations, originals (includes electronic records)
- Box 8 of 15 *Leptodactylus validus* poster presentation
- Box 8 of 15 "The Last Frog" National Geographic presentation (includes VHS)
- Box 8 of 15 Howard University presentation - "Why Study Frogs from Nature?", 1989
- Box 8 of 15 "Measuring and Monitoring Biological Diversity: Standard Methods for Amphibians," online chapters

- Box 8 of 15 "Measuring and Monitoring Biological Diversity: Standard Methods for Amphibians," 1994 (English)
- Box 8 of 15 "Medicion y Monitoreo de la Diversidad Biologica: Metodos estandarizados para Anfibios," 1994 (Spanish)
- Box 8 of 15 "Measuring and Monitoring Biological Diversity: Standard Methods for Amphibians" (Russian)
- Box 8 of 15 Amazon presentation - Curitiba herpetology meetings
- Box 8 of 15 Heyer and de Sa National Science Foundation (NSF) proposal, 1996-1997
- Box 8 of 15 Heyer and de Sa NSF award 9815787
- Box 8 of 15 Heyer and de Sa NSF proposal, 2003
- Box 9
- Box 9 of 15 Heyer and de Sa NSF grant records and finances as of July 2004
- Box 9 of 15 *Leptodactylus* phylogeny data and correspondence
- Box 9 of 15 *Leptodactylus* phylogeny monograph final publication, *South American Journal of Herpetology* Special Issue, 9 (S1-S128), 2014
- Box 9 of 15 *Leptodactylus* phylogeny monograph drafts and data (6 folders)
- Box 9 of 15 *Leptodactylus* phylogeny frog call recordings and requests, photographs and requests
- Box 9 of 15 *Leptodactylus* phylogeny tissue data and POY runs
- Box 9 of 15 *Leptodactylus* phylogeny tree
- Box 9 of 15 *Leptodactylus* phylogeny tissues data
- Box 9 of 15 *Leptodactylus* phylogeny monograph correspondence
- Box 9 of 15 Cornell Laboratory of Ornithology NSF proposal for frog recordings
- Box 9 of 15 *Leptodactylus* website common names, calls, photographs
- Box 10
- Box 10 of 15 Unpublished *Leptodactylus* sexual dimorphism manuscript, 2015
- Box 10 of 15 Sexual dimorphism data analysis: *Leptodactylus albilabris* - *Leptodactylus discodactylus*

- Box 10 of 15 Sexual dimorphism data analysis: *Leptodactylus elenae* - *Leptodactylus insularum*
- Box 10 of 15 Sexual dimorphism data analysis: *Leptodactylus knudseni* - *Leptodactylus mystacinus*
- Box 10 of 15 Sexual dimorphism data analysis: *Leptodactylus natalensis* - *Leptodactylus pustulatus*
- Box 10 of 15 Sexual dimorphism data analysis: *Leptodactylus rhodomerus* - *Leptodactylus turimiquensis*
- Box 10 of 15 Sexual dimorphism data analysis: *Leptodactylus validus* - *Leptodactylus wagneri*
- Box 10 of 15 Sexual dimorphism manuscript initial drafts (includes electronic records)
- Box 10 of 15 Sexual dimorphism manuscript data and correspondence
- Box 10 of 15 Seminar presentations notes
- Box 10 of 15 Presentation slides: "Relationships of *Leptodactylus silvanimbus*"
- Box 10 of 15 Presentation slides: Wynn and Heyer, "*Leptodactylus fuscus*, one or more species"
- Box 10 of 15 Presentation slides: "Speciation factors in *Leptodactylus fuscus*, *Leptodactylus pentadactylus*, and *Leptodactylus melanotus* groups"
- Box 10 of 15 Heyer manuscripts (electronic records)
- Box 10 of 15 *Leptodactylus* pdf files (electronic records)
- Box 10 of 15 Estuarium frog talk (electronic records)
- Box 10 of 15 Speciation patterns in *L. pentadactylus* cluster (electronic records)
- Box 10 of 15 Brazilian Herpetological Society Belo Horizonte presentation (electronic records)
- Box 10 of 15 *Leptodactylus bolivianus* complex presentation (electronic records)
- Box 11
- Box 11 of 15 EndNote presentation, *Leptodactylus* research topics, Rio de Janeiro and San Juan (electronic records)
- Box 11 of 15 Belem, Brazil, presentation (electronic records)
- Box 11 of 15 *Leptodactylus* systematics (electronic records)
- Box 11 of 15 Argentina presentation (electronic records)

Box 11 of 15 7th Congress, Argentina, presentation (electronic records)

Box 11 of 15 San Luis, Argentina, presentation (electronic records)

Box 11 of 15 Locality records - Thailand

Box 11 of 15 Locality data and correspondence - South America

Box 11 of 15 *Leptodactylus* locality data (2 folders)

Box 11 of 15 *Leptodactylus* locality Gazetteer

Box 11 of 15 Drawings, sonograms, maps, data, and photographs for publication

56 Years of *Leptodactylus* Data

Box 11 of 15 *Marmoratus* group - locality data

Box 11 of 15 Venezuelan *Leptodactylus* species data

Box 11 of 15 *Leptodactylus* locality data

Box 11 of 15 JAP specimens to borrow

Box 11 of 15 Negatives

Box 11 of 15 External morphology data

Box 11 of 15 *Leptodactylus* - Tadpole data

Box 11 of 15 *Barycholos*

Box 11 of 15 *Lithodytes*

Box 11 of 15 External morphology of *melanonotus* group

Box 11 of 15 *Leptodactylus* - Egg and egg deposition information

Box 11 of 15 *Leptodactylus* - Taxonomic notes and miscellaneous

Box 11 of 15 Chromosome analysis

Box 11 of 15 *L. labialis* - Analyses

Box 11 of 15 *L. albilabris* - Analyses

Box 11 of 15 *Leptodactylus* locality data

Box 11 of 15 *Fuscus* group data

Box 11 of 15 *Mystaceus* - SW complex form

- Box 11 of 15 *Mystaceus*
- Box 11 of 15 *Fuscus* group - Nomenclature correspondence
- Box 11 of 15 Completed data sheets
- Box 11 of 15 *Pentadactylus* group nomenclature
- Box 12
- Box 12 of 15 *Leptodactylus* data sheets
- Box 12 of 15 *Leptodactylus* - Breeding call information
- Box 12 of 15 Leptodactylid literature
- Box 12 of 15 Chromosome data
- Box 12 of 15 Heyer and Pyburn - *Leptodactylus riveroi*
- Box 12 of 15 Pattern standards - *Melanonotus* group
- Box 12 of 15 Post *podicipinus-wagneri* manuscript locality data
- Box 12 of 15 *Leptodactylus* - Distributional data post revisions
- Box 12 of 15 *Cycloramphus* negatives
- Box 12 of 15 *Centrolenella* negatives
- Box 12 of 15 Negatives for *fuscus* group paper
- Box 12 of 15 Map negatives for *fuscus* group paper
- Box 12 of 15 Proof sheet and negatives for figures associated with *L. rugosus*, etc., manuscript
- Box 12 of 15 *Leptodactylus paraguayensis* and *L. didymus* negatives
- Box 12 of 15 Map negative of South America
- Box 12 of 15 *Leptodactylus* type negatives
- Box 12 of 15 *E. guentheri* negatives
- Box 12 of 15 *Podicipinus-wagneri* complex negatives
- Box 12 of 15 Large species of *Leptodactylus* holotype negatives and proof sheet
- Box 12 of 15 *Eleuth. dundeei*, *Rupirana cardosoi*, Rondonia frog negatives

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|--------------|---|
| Box 12 of 15 | Unidentified negatives (2 folders) |
| Box 12 of 15 | <i>Fuscus</i> group standard sheets |
| Box 12 of 15 | <i>Fuscus</i> group analyses and notes for manuscript |
| Box 12 of 15 | Tepequem collection notes |
| Box 12 of 15 | Cadle Bolivian frog |
| Box 12 of 15 | Types - Senckenberg, Vienna, Munich, September 1982 |
| Box 12 of 15 | <i>Leptodactylus</i> types A-L |
| Box 12 of 15 | <i>Leptodactylus</i> types M-Z |
| Box 12 of 15 | <i>L. delattini</i> |
| Box 12 of 15 | <i>L. cf furnarius</i> - Pico das Almas |
| Box 12 of 15 | <i>L. ocellatus</i> |
| Box 12 of 15 | <i>L.</i> species "elenae" from Peru |
| Box 12 of 15 | <i>Albilabris</i> - Data and transformations |
| Box 12 of 15 | <i>L. bolivianus</i> |
| Box 12 of 15 | <i>L. bufonius</i> |
| Box 12 of 15 | <i>L. caatingae</i> |
| Box 12 of 15 | <i>L. camaquara</i> |
| Box 12 of 15 | <i>L. chaquensis</i> |
| Box 12 of 15 | <i>L. colombiensis</i> |
| Box 12 of 15 | <i>L. cunicularius</i> |
| Box 12 of 15 | <i>L. cupreus</i> |
| Box 12 of 15 | <i>L. didymus</i> - Data |
| Box 12 of 15 | <i>L. diedrus</i> |
| Box 12 of 15 | <i>Vanzolinius discodactylus</i> |
| Box 12 of 15 | <i>L. elenae</i> |
| Box 12 of 15 | <i>L. fallax</i> |

Box 12 of 15 *L. flavopictus*

Box 12 of 15 *L. furnarius*

Box 12 of 15 *L. fragilis*

Box 13

Box 13 of 15 *Fuscus* - Data

Box 13 of 15 *L. jolyi*

Box 13 of 15 *L. knudseni*

Box 13 of 15 *L. labrosus*

Box 13 of 15 *L. labyrinthicus*

Box 13 of 15 *L. laticeps*

Box 13 of 15 *L. latinasus*

Box 13 of 15 *L. gracilis*

Box 13 of 15 *L. griseigularis*

Box 13 of 15 *L. insularum*

Box 13 of 15 *L. lauramiriamae*

Box 13 of 15 *L. leptodactyloides*

Box 13 of 15 *L. lithonaetes*

Box 13 of 15 *L. longirostris*

Box 13 of 15 *L. macrosternum*

Box 13 of 15 *L. magistris*

Box 13 of 15 *L. marambaiae*

Box 13 of 15 *L. melanonotus*

Box 13 of 15 *L. myersi*

Box 13 of 15 *L. mystaceus*

Box 13 of 15 *L. mystacinus*

Box 13 of 15 *L. natalensis*

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|--------------|------------------------------------|
| Box 13 of 15 | <i>L. nesiotus</i> |
| Box 13 of 15 | <i>L. notoakfites</i> |
| Box 13 of 15 | <i>L. ocellatus</i> |
| Box 13 of 15 | <i>L. paraensis</i> |
| Box 13 of 15 | <i>L. pascoensis</i> |
| Box 13 of 15 | <i>L. pentadactylus</i> - Amazonia |
| Box 13 of 15 | <i>L. peritoaktites</i> |
| Box 13 of 15 | <i>L. petersii</i> |
| Box 13 of 15 | <i>L. plaumanni</i> |
| Box 13 of 15 | <i>L. podicipinus</i> |
| Box 13 of 15 | <i>L. poecilochilus</i> |
| Box 13 of 15 | <i>L. pustulatus</i> |
| Box 13 of 15 | Ceara <i>L. pustulatus</i> |
| Box 13 of 15 | <i>L. rhodomerus</i> |
| Box 13 of 15 | <i>L. rhodomystax</i> |
| Box 13 of 15 | <i>L. rhodonotus</i> |
| Box 13 of 15 | <i>L. riveroi</i> |
| Box 13 of 15 | <i>L. rugosus</i> |
| Box 13 of 15 | <i>L. sabanensis</i> |
| Box 13 of 15 | <i>L. savagei</i> |
| Box 13 of 15 | <i>L. silvanimbus</i> |
| Box 13 of 15 | <i>L. spixi</i> |
| Box 13 of 15 | <i>L. stenodema</i> |
| Box 13 of 15 | <i>L. syphax</i> |
| Box 13 of 15 | <i>L. tapiti</i> |
| Box 13 of 15 | <i>L. troglodytes</i> |

Box 13 of 15 *L. turimiquensis*

Box 13 of 15 *L. validus*

Box 13 of 15 *L. vastus*

Box 13 of 15 *L. ventrimaculatus*

Box 13 of 15 *L. viridis*

Box 13 of 15 *L. wagneri*

Box 13 of 15 *Physalaemus gracilis*

Box 13 of 15 Completed *melanonotus* distribution data sheets

Box 13 of 15 Distribution notes on the species groups

Box 13 of 15 Distribution of *melanonotus* group

Box 13 of 15 Underwater Component in the Call of the Frog *Leptodactylus ocellatus*, by
Alejandro Purgue

Box 13 of 15 Caldwell - Brazilian frog data - NSF reports

Box 13 of 15 J. R. Dixon data on *Leptodactylus* at El Bagual, Argentina

Box 13 of 15 *Chiasmocleis*

Box 13 of 15 Call of *Eleutherodactylus* sp. Brejo da Lapa, WRH 8429

Box 13 of 15 Aborted *Leptodactylus pentadactylus* biogeography project

Box 13 of 15 Wynn and Heyer - Genetic relatedness within *L. fuscus* (electronic records)

Box 13 of 15 Bertha Lutz bibliography

Box 13 of 15 Brasil frog literature, notes, etc.

Box 13 of 15 *Leptodactylus* loan sheets - Completed

Box 13 of 15 *Leptodactylus* types - Negatives and miscellaneous

Box 13 of 15 Current loans

Box 13 of 15 *Leptodactylus labialis* - Distribution

Box 13 of 15 *Pentadactylus* group - Locality information

Box 13 of 15 *Rana macrocephala* Wied (= *Ceratophrys*)

Box 14

- Box 14 of 15 The Society of the Sigma Xi certificate, 1966
- Box 14 of 15 Phi Sigma Society certificate, 1964
- Box 14 of 15 "A Diatom Is Two Atoms Working Together" - A collection of classic examination answers of biology 100 and 106 students
- Box 14 of 15 *Leptodactylus* - Miscellaneous correspondence, 1963-1968
- Box 14 of 15 Completed Pacific Lutheran University loan invoices 1-25
- Box 14 of 15 *Leptodactylus* correspondence and miscellaneous (3 folders)
- Box 14 of 15 *Leptodactylus* data for phylogenetic analysis
- Box 14 of 15 *Leptodactylus* holdings at University of Texas, Arlington, 2006
- Box 14 of 15 *Anais da Academia Brasileira de Ciencias*, 76(2), 2004
- Publications
- Box 14 of 15 Heyer bibliography
- Box 14 of 15 Heyer, W. R. 1967. A herpetofaunal study of an ecological transect through the Cordillera de Tilaran, Costa Rica. *Copeia*, 1967: 259-271.
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