

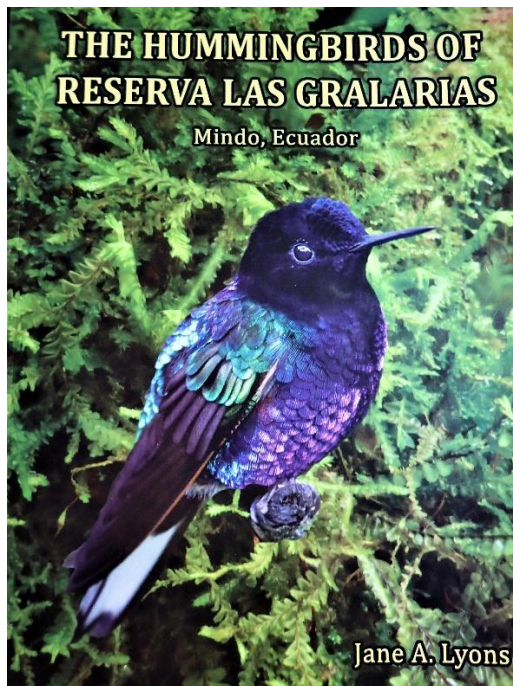
AN ANNOTATED LIST OF PUBLICATIONS FROM FIELD WORK BASED AT RESERVA LAS GRALARIAS

We encourage and support conservation-oriented field research and are happy to share the following publications about work done by field researchers at Reserva Las Galarias.

We know that only by documenting and understanding the many processes at work in nature can we hope to successfully conserve it over the long-term.

Thank you to all of our field researchers for their hard work.

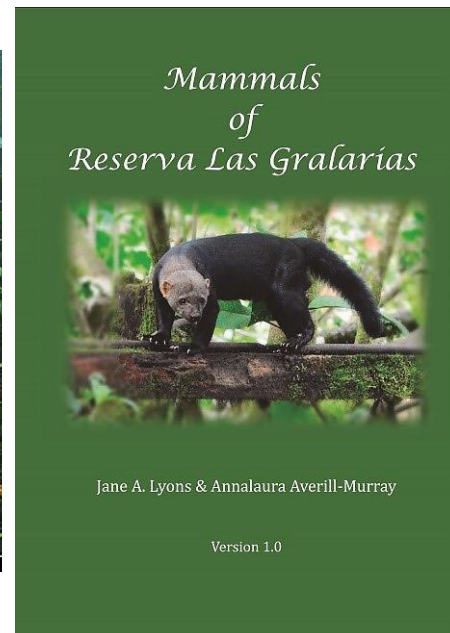
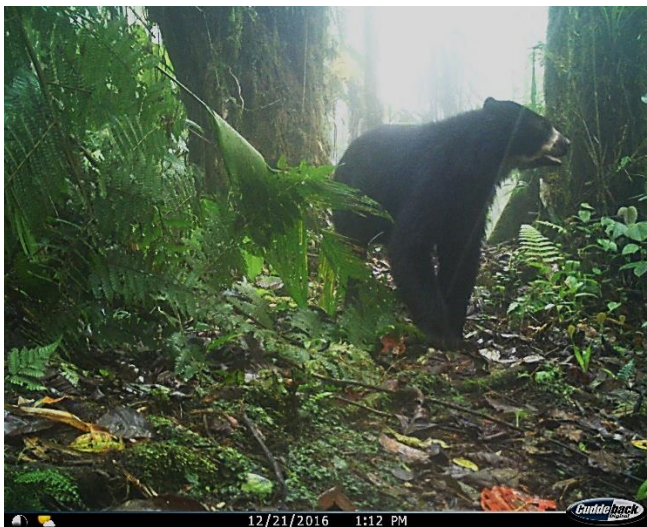
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- The Hummingbirds of Reserva Las Galarias. 2017. Lyons, J.A. A 166-page photo-filled book documenting the history and behavior of the hummingbird species recorded in the forest and gardens of Reserva Las Galarias since 1998.
- “Newly discovered population of Bumpy Glassfrog, *Centrolene heloderma* (Duellman, 1981), with discussion of threats to population persistence”. 2017. Katherine L. Krynak, Dana G. Wessels, Segundo M. Imba, Jane A. Lyons, Juan M. Guayasamin Check List, doi: 10.15560/14.1.261. Report of a new population of a critically endangered frog species from Fulbright scholarship project based at RLG.
- “Natural History Notes. *Urotheca lateristriga* (Ribboned Brittle-Snake). Maximum size” Herpetological Review 48(3). 2017. Averill-Murray, R.C. and Averill-Murray, A. This note

documents the new maximum total length of the Ribboned Brittle-Snake as found at Reserva Las Galarias in August 2016.

- “Natural History Notes. *Atractus dunni* (Sleepy Groundsnake). Maximum size” Herpetological Review 48(3). 2017. Averill-Murray, R.C. and Averill-Murray, A. This note documents the new maximum total length of the Sleepy Groundsnake as found at Reserva Las Galarias in August 2016.
- “Natural History Notes. *Anolis gemmosis* (Gem Anole). Sleep-site Fidelity” Herpetological Review 48(3). 2017. Wagner, A.S., Lavalley, A.L., Krynak, K.L., Krynak, T.J., Snyder, E.B. This note documents the results of sampling and observations as found at Reserva Las Galarias in May 2016.



- Mammals of Reserva Las Galarias. 2017. Lyons, J.A. and Averill-Murray, A. A listing of the 38 species of mammals recorded at Reserva Las Galarias with in-situ photos of most.
- Check List of the Birds at Reserva Las Galarias. 2017. Lyons, J.A. A basic checklist of the birds recorded at RLG.
- Patterns of parental care in Neotropical glassfrogs: fieldwork alters hypotheses of sex-role evolution. 2017. Delia, Bravo-Valencia and Warkentin. This lengthy paper analyzes the role of male and female adult glassfrogs in providing care for egg masses and hypothesizes some changes in current theories of glassfrog evolution.
- The Natural History, Distribution, and Conservation of Lonely Rainfrogs, *Pristimantis eremitus*. 2016. Hutter, Liu, Kell, Lyons and Guayasamin. This paper details the results of a 13-month study of the Lonely Rainfrog at Reserva Las Galarias.

- Macroinvertebrate community composition, food web structure, and emergence rate of Neotropical cloud-forest streams in Mindo, Ecuador. 2016. Harris, A. Thesis for MSc. Grand Valley State University.



- Cryptic diversity concealed in the Andean cloud forests: two new species of rainfrogs (*Pristimantis*) uncovered by molecular and bioacoustics data. 2015. Hutter and Guayasamin. This paper describes two new species split from *Pristimantis calcarulatus*, one based on field work at Reserva Las Galarias.
- Phenotypic plasticity raises questions for taxonomically important traits: a remarkable new Andean rainfrog (*Pristimantis*) with the ability to change skin texture. 2015. Guayasamin, Krynak, Krynak, Culebras and Hutter. This article describes a new species of frog discovered by the Krynaks at Reserva Las Galarias which was found to change its skin texture within minutes from spiny to smooth, the first known vertebrate to have such an ability and which raises questions about the currently accepted frog taxonomy.
- Amphibian conservation (Centrolenidae) in neotropical cloud-forest streams using stable isotopes to measure energy subsidies. 2015. Harris, Rios-Touma, Encalada and Snyder. This is a presented poster based on MSc field work at Reserva Las Galarias.
- *Xanthosoma undipes* (Araceae) as a food source for Black-chinned Mountain-Tanager (*Anisognathus notabilis*) and Orange-bellied Euphonia (*Euphonia xanthogaster*) in Northwest Ecuador. 2015. Kerbs. Ornitología Neotropical 26. This article documents with photographs the first cases of use as a food source of the “camacho”, a native arum found in northwestern South America. One widespread bird species and one Chocó endemic bird species were observed

feeding on the fruits of the plant which is known to be a fast colonizer of disturbed areas as well as common in the wet primary forest. This plant and related species could prove to be valuable transitional plants to draw birds from nearby forest and thus aid in the regeneration of disturbed zones.



- High prevalence of *Batrachochytrium dendrobatidis* in an Andean frog community (Reserva Las Galarias, Ecuador). 2014. Guayasamin, Mendoza, Longo, Zamudio, and Bonaccorso. This article describes the results of a study of the fungus known as “chytrid” which has affected frogs world-wide and was thought to be responsible for large-scale extinctions. The results found at Reserva Las Galarias show that local species of frogs are tolerant to chytrid infection and thus raise questions about the entire theory.
- Physical habitat, macroinvertebrate community structure, and stream metabolism in the headwaters of an Ecuadorian cloud forest stream network. 2014. Snyder, Harris and Lyons. This is a presented poster based on MSc field work at Reserva Las Galarias.
- The territoriality, vocalizations and aggressive interactions of the red-spotted glassfrog, *Nymphargus grandisonae*. Cochran and Goin, 1970 (Anura: Centrolenidae). 2013. Hutter, Escobar-Lasso, Rojas-Morales, Gutiérrez-Cárdenas, Imba, Guayasamin. This paper describes the calls and various aspects of behavior of the red-spotted glassfrog from Reserva Las Galarias, Mindo, Ecuador and from Manizales, Caldas, Colombia.
- Applications of geographic information systems and remote sensing techniques to conservation of amphibian habitats in Northwestern Ecuador. 2013. Palacios, M. Thesis for MSc. Universidad Tecnológica Iberoamericana.
- Evaluate the Phylogenetic and Morphological Diversity of the Hummingbird Community: How does this diversity change over the elevation gradient? Project Report 2012 Weinstein.
- A new cryptic species of glassfrog (Centrolenidae: *Nymphargus*) from Reserva Las Galarias, Ecuador. Hutter and Guayasamin. 2012. This is an article with the description of a new species of glass frog *Nymphargus lasgalarias* that was discovered at Reserva Las Galarias in 2011.



- [Hyloscirtus criptico etc description.pdf](#), Coloma et al. 2012. This is a lengthy monograph with species description of the new species of glass frog *Hyloscirtus criptico* that was discovered at Reserva Las Galarias in 2011 as well as the species description of *Hyloscirtus princecharlesi* and a review of the molecular phylogenetics of stream treefrogs.
- [Advertisement and combat calls of the glass frog *Centrolene lynchi* \(Anura: Centrolenidae\) with notes on combat and reproductive behaviors.](#) 2011. Dautel, Salgado, Abuza, Imba, Griffin, Guaysamin. This is an article about research conducted at Reserva Las Galarias on the glassfrog *Centrolene lynchi*.
- [Cuidado parental y selección sexual en *Centrolene peristictum* \(Anura: Centrolenidae\).](#) Salgado, A. 2012. This is a BSc degree thesis on parental care behavior of the glassfrog *Centrolene peristictum* conducted at Reserva Las Galarias. Pontificia Universidad Católica del Ecuador.
- [Polish Journal of Entomology: Lepidoptera: Tortricidae from Ecuador.](#) 2010. Razowski, J and Pelz, V. This paper describes the first known species of *Mictopsichia* moths from Ecuador, with the first to be described being *Mictopsichia janeae* sp.n. named for Dr. Jane A. Lyons, founder of Reserva Las Galarias.
- [First Nest Description of the Yellow-breasted Antpitta *Grallaria flavotincta* in north-west Ecuador.](#) 2009. Greeney, Juiña, Imba and Lyons. This article describes the first nest and nestlings ever found of the Chocó endemic Yellow-breasted Antpitta, which was discovered at Reserva Las Galarias.



- [Butterflies of Reserva Las Galarias 2012.pdf](#).
- [Check List of the Birds at Reserva Las Galarias](#).
- [Check List of the Mammals at Reserva Las Galarias](#)
- [Creepy Crawlies of Reserva Las Galarias](#). A basic annotated list of common invertebrates and insects found at Reserva Las Galarias.
- [Dragonflies and Damselflies of Reserva Las Galarias 2012.pdf](#)
- [Reserva Las Galarias Bird Checklist, 2012](#).
- [Liophis Night Ground Snake diet note.pdf](#). 2011. Krynak, T.
- [Notes on the feeding activity and diet of the Blue-fronted Parrotlet \(Touit dilectissima\) in north-west Ecuador](#). 2012. Liu and Lyons. A paper on diet and feeding activity of these small parrotlets at RLG.
- [Applications of geographic information systems and remote sensing techniques to conservation of amphibian habitats in Northwestern Ecuador](#). 2013. Palacios, M. Thesis for MSc. Universidad Tecnológica Iberoamericana. This is one of seven Masters of Science degree theses research projects conducted at Reserva Las Galarias.



- [Colonisation and structure of faunal communities in epiphytic tank bromeliads in Ecuador: An experimental assessment of the roles of water volume and surface area](#). 2011. Liu, V. Thesis for MSc. Leeds University.

- The Effect of Resource Quality and Abundance On The Behaviour Of A Hummingbird Guild In The Cloud Forests Of Ecuador. 2011. Noble, E. Thesis for MSc. Leeds University.



- Results of Mammal Study. 2008. Bartzke. G. Thesis for MSc. Leeds University.
- Polish Journal of Entomology: *Hynhamia* RAZOWSKI, *Dimorphopalpa* BROWN, and *Ulvipinara* gen. n, three euliine genera from Ecuador (Lepidoptera: Tortricidae). 2007. Razowski, J. and Pelz, V. Descriptions of two new moth species discovered at Reserva Las Galarias: *Hynhamia lasgalariae* sp.n. named for where it was discovered at Reserva Las Galarias, and *Dimorphopalpa lyonsae* sp.n. named for Dr Jane A. Lyons, founder of Reserva Las Galarias where the moth was discovered.
- Razowski, Józef & Volker Pelz, 2007. *Polskie Pismo Entomologiczne* 76: 21-40 http://species.wikimedia.org/wiki/Dimorphopalpa_lyonsae. Descriptions of two new moth species discovered at Reserva Las Galarias.
- Aves de la Reserva Las Galarias, Mindo, Ecuador. 2003. Jane Lyons. A report of our bird banding and bird observations. Spanish only.
- RLG Plant Survey.pdf 2001. Simbaña and Amaya-Capelo. An initial survey done of our first 7.5 hectares. Spanish only.

INTERVIEWS about Reserva Las Galarias

- Kathy Krynak’s interview on National Public Radio about forest soil microbes 12 June 2017.
- Kathy Krynak’s many interviews about *Pristimantis mutabilis* as the discovery at RLG went viral on the internet in early 2015: “Shape-shifting “punk rocker” frog discovered in cloud forest of Ecuador” (ASA); “Una rana con una capacidad de mutación sin precedentes entre los anfibios.”

Ciencia, 28/03/2015; <https://www.britannica.com/story/the-incredible-shape-changing-frog>; BBC documentary June 2017; many more.

- <http://www.elcomercio.com/tendencias/ecuador-especie-rana-mutacion-taxonomia.html> 2015.
- <http://elcomercio.com/tendencias/lasgralarias> 12 april 2015.
- http://www.bbc.co.uk/mundo/noticias/2012/09/120910_ecuador_reserva_jane_am.shtml
- <http://news.mongabay.com/2012/0828-hance-interviews-jane-lyons.html>



INTERNATIONAL FILMS about Reserva Las Gralarias

- BBC Natural History Unit production partially filmed at RLG: Mountains - Life Above the Clouds, the Andes. 2017.
- BBC Natural History Unit production partially filmed at RLG: Hummingbird Fight Club. 2012