

## NOTES ON GEOGRAPHIC DISTRIBUTION

### Reptilia, Squamata, Colubridae, *Clelia clelia*: Range extensions and new provincial records from Ecuador.

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*Clelia clelia* (Daudin, 1803) is probably one of the most familiar snakes among people living in rural areas of the lowlands and foothills of Ecuador, mainly because of its large adult size that may exceed 2 m total length, venomous-snake feeding habits, and its ability to inhabit secondary and altered habitats. Unfortunately little scientific information has been published on the Ecuadorian populations of *C. clelia* and about its distribution in the Andean region. The species is widely distributed in America, ranging from southern Mexico to Panama and South America both on the Pacific (to south-western Peru) and Atlantic versants of the Andes (along the Guyana Shield and the Amazon basin south to central Brazil and Bolivia), and occurring also on several Caribbean islands (Zaher 1996). In Ecuador, *C. clelia* has been reported from both sides of the Andes. In the west, it has been recorded from the provinces of Guayas, Esmeraldas, Los Ríos, Imbabura, Pichincha, Cotopaxi, Bolívar, and Chimborazo. In the eastern (Amazonian) region it is known from the provinces of Loja, Napo, Pastaza, Orellana, Sucumbíos, Tungurahua, and Morona-Santiago (Duellman 1978; Pérez-Santos and Moreno 1991; Zaher 1996).

Here we provide new provincial records extending the known distributional range of *Clelia clelia* in Ecuador, based on specimens deposited in the collections of the Instituto Nacional de Higiene y Medicina Tropical, in Guayaquil (INHMT), and the Fundación Herpetológica Gustavo Orcés, in Quito (FHGO).

A specimen of *Clelia clelia* (INHMT 4060) was collected in Zamora (ca. 04°05' S, 78°55' W; 900–1200 m elevation), in the province of Zamora-Chinchipec, on 26 July 1999 by Hector Apolo. This record provides the first report for Zamora-Chinchipec and for the upper Río Zamora valley.

Another specimen of *Clelia clelia* (FHGO 278) was collected in San Isidro (ca. 00°23' S, 80°10' W; 100 m elevation), in the province of Manabí, on 28 February 1991 by the Principal of the local high school. This record is the first report for Manabí, fills the gap between previous records from the provinces of Guayas and Esmeraldas, and it is the westernmost known locality in the South American distribution of this species.

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### Acknowledgments

UK, AFL and WW thank Fernando García for field assistance. Field research in Ecuador by UK was supported by a grant from the Hermann Willkomm-Stiftung. DFCH is grateful to Jean-Marc Touzet and Ana María Velasco for granting access to the FHGO collection; to María Elena Heredia and Laura Heredia for their continuous support, to the Universidad San Francisco de Quito for institutional support, and to the Division of Amphibians and Reptiles, National Museum of Natural History, Smithsonian Institution, for access to its library. We are grateful to Francisco Luís Franco and Cristiano Nogueira for comments on an early draft.

### Literature cited

- Duellman, W. E. 1978. The biology of an Equatorial Herpetofauna in Amazonian Ecuador. University of Kansas, Museum Natural History, Miscellaneous Publications 65: 1–352.
- Pérez-Santos, C. and A. G. Moreno. 1991. Serpientes del Ecuador. Museo Regionale di Scienze Naturali, Torino, Monografie XI: 1–538.
- Zaher, H. A. 1996. A new genus and species of Pseudoboine snake, with a revision of the genus *Clelia* (Serpentes, Xenodontinae). Bollettino del Museo Regionale di Scienze Naturali, Torino, 14(2): 289–337.

Received May 2007

Accepted July 2007

Published online September 2007