



Lankesteriana International Journal on
Orchidology

ISSN: 1409-3871

lankesteriana@ucr.ac.cr

Universidad de Costa Rica
Costa Rica

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The orchid flora of Chorogo Wildlife Reserve, Puerto Armuelles, Chiriquí, Panamá
Lankesteriana International Journal on Orchidology, vol. 13, núm. 1-2, agosto, 2013, p.

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distance of 60 km. This exploration produced the most complete list of orchids ever made in this territory, with a total of 70 species belonging to 41 genera. This list exceeds the previous record by 37 species (112%) and represents 1.74% of the total of orchid species reported for Colombia. Several new regional records were found, as well as at least three endemic species and probably one local extinction. We detected five centers of high orchid concentration (“regional hot spots”), each with 21–29 species. We found that total species richness of this bioregion (70 species in 421,000 hectares) is 842 times

lower than the much smaller Yotoco forest adjacent to this area (69 species in 500 hectares). Possible explanations might be that plant diversity decreases when rainfall is low, and this is valid for orchids as well. However, other factors such as 130 years of habitat destruction (only 2% of dry forest remains) lead us to think that extinction has occurred. At the same time, an illustrated guide of these species was printed to increase public awareness of the importance of orchid conservation. Also, a digital high-resolution bank of images of the orchid flora of the department of Valle del Cauca was begun.

The orchid flora of Chorogo Wildlife Reserve, Puerto Armuelles, Chiriquí, Panamá

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We performed a preliminary taxonomic study of the orchid flora of Chorogo Wildlife Reserve, Chiriquí, Panama. Chorogo is located 11 km west of Puerto Armuelles along the Panama-Costa Rica border and protects about 1,000 ha of lowland tropical wet forest with elevations of 344–572 m, average annual temperature of 27 °C, and 226.5 mm of precipitation. Samples were collected at different sites of the reserve during three field trips. The material was cultivated and documented electronically by photographs and botanical plates with stereoscope, digital camera, and scanner. Specimens are kept in the reference collection of dried specimens, living plant collection, and spirit collection at the UCH herbarium. Identification was made by comparing the

specimens with types and protologues. The information is available free online at the website Epidendra (www.epidendra.org). Composite plates, distribution, descriptions, ecology, etymology, synonymy, taxonomy, and photographs are provided for each of the 15 species belonging to 11 genera recorded. Of these, seven are new records for the province of Chiriquí. *Epidendrum coronatum* and *Mormodes fractiflexa* are considered vulnerable by national conservation criteria. Together with studies conducted in the Pacific of Costa Rica, this project aims to strengthen the understanding of the orchid flora protected by both countries on the Pacific lowlands. It also represents the beginning of the study of the orchids of the protected areas of Panama.

What delimitation for *Stelis* should be used?

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The use of DNA sequences for the phylogenetic reconstruction of subtribe Pleurothallidinae has led to a new delimitation of *Stelis*, and the genus now includes several groups that are morphologically

heterogeneous (*Stelis* s.l.). Some authors do not accept this broader delimitation and recognize *Stelis* in its narrow sense (*Stelis* s.s.), raising to generic level those related groups (*Crocodelanthae*, *Dracontia*,