## Maricao State Forest, Maricao/Sabana Grande/San Germán municipalities, PUERTO RICO

## **Lichens of the Maricao State Forest**

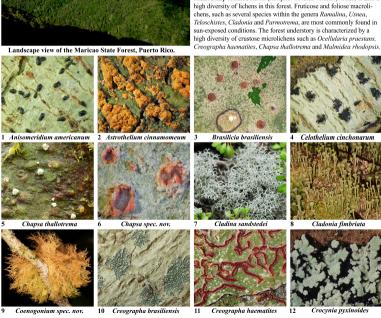
Joel A. Mercado-Díaz & Robert Lücking

Photos by Robert Lücking, Joel A. Mercado-Díaz, and Omar A. Monsegar Rivera. Produced by Joel A. Mercado-Díaz, R. Lücking, J. Philipp, T. Wachter, and R. Foster, with support from the National Science Foundation, Ford Morter Company's Conservation & Environmental Granta awarded to the first author (2014), the Andrew Mellon Foundation, and Connie Keller. E. J. A. Mercado-Díaz [innercadoduz@scheinega.edu]. University of Chicago, R. Lücking [Insecking@hghm.org], Bottuny, The Field Museum.

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The Maricao State Forest is located on the island of Puerto Rico between the municipalities of Maricao, Sabana Grande and San Germán. It lies at the western end of the Cordillera Central and covers an area of nearly 10,518 acres. Almost 90% of the soils in this forest are derived from seprentine rocks, a greenish-gray metamorphic rock that is often seen in outcrops throughout this forest. Most of the forest types at the Maricao State Forest are classified as Moist, Wet and Lower-Montane-Wet subtropical forests. It is considered the area of highest plant diversity in Puerto Rico. Three salient ecological attributes of the Maricao State Forest make it unique among all forests of the island: its alternating wet/dry climate, the well aereated serpentine derived soils, and its high degree of endemism. Some of its most conspicuous endemic species include the Higiero de Sierra tree (Crescentia portoricensis), the Elfin-woods Warbler (Setophaga angelae), and the Puerto Rican Sharp-shinned Hawk (Accipiter stratus venator). There is also a high diversity of lichens in this forest. Fruticose and foliose macrolichens, such as several species within the genera Ramalina, Usnea, Telsoksistes, Calaonia and Parmotrema, are most commonly found in sun-exposed conditions. The forest understory is characterized by a high diversity of crustose microlichens such as Ocellularia praestans, Creographa heamatites, Chappas hallotorema and Malmidaer throdopsis.



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