



Studies of Malagasy *Eugenia* (Myrtaceae)—III: Seven new species of high conservation concern from the eastern littoral forests

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Abstract

Seven species of *Eugenia* from eastern littoral forests in Madagascar are newly proposed. Six occur in or near the forests of Petriky, Mandena, or Sainte Luce near Tolagnaro in the southeast, including *Eugenia guajavoides*, *Eugenia manonae*, *Eugenia petrikensis*, *Eugenia stictophylla*, *Eugenia roseopetiolata* and *Eugenia stibephylla*. The seventh, *Eugenia vanwykiana*, occurs in the Analabe littoral forest near Lac Sahaka in the northeast. Descriptions and diagnostic field characters are provided for each species. Conservation threat analyses based on IUCN Red List Categories and Criteria suggest the status of Endangered for *Eugenia guajavoides*, *E. petrikensis*, *E. stictophylla*, *E. roseopetiolata*, and *E. vanwykiana*, and Vulnerable for *E. manonae* and *E. stibephylla*. A provisional key to species of *Eugenia* from the Tolagnaro region is provided.

Résumé

Sept nouvelles espèces dans le genre *Eugenia* des forêts littorales de l'est de Madagascar sont nouvellement proposées. Six de ces espèces poussent près de Tolagnaro au Sud-Est de l'île, incluant *Eugenia guajavoides*, *Eugenia manonae*, *Eugenia petrikensis*, *Eugenia punctiphylla*, *Eugenia rosapetiolata* et *Eugenia stibephylla*. La septième, *Eugenia vanwykiana*, pousse dans la forêt littorale d'Analabe près du Lac Sahaka au Nord-Est. Des descriptions et des caractères diagnostiques de terrain sont proposés pour chaque espèce. L'évaluation du statut de conservation de chaque espèce suivant les Catégories et les Critères de l'UICN montre que *Eugenia guajavoides*, *E. petrikensis*, *E. stictophylla*, *E. roseopetiolata*, et *E. vanwykiana* sont En Danger alors que *E. manonae* et *E. stibephylla* sont Vulnérables. Une clé provisoire des espèces d'*Eugenia* de la région de Tolagnaro est proposée.

Kew words: Aleyrodidae, *Eugenia*, IUCN Red List, littoral forests, Madagascar, Myrtaceae, new species, vernacular names, white flies

Introduction

The Myrtle family (Myrtaceae) in Madagascar is represented by two native genera, *Eugenia* L. and *Syzygium* Gaertn. Taxonomic studies in both genera lagged for many years following the work of Perrier de la Bâthie (1953a, b) six decades ago. Recent progress has advanced our knowledge of both genera (Miller 2000; Labat