

First record of *Oenothera kunthiana* (Onagraceae) for the flora of Cuba

Authors: González Gutiérrez, Pedro Alejandro, and Góngora, Juan Luis Verdecía

Source: Willdenowia, 34(1) : 295-296

Published By: Botanic Garden and Botanical Museum Berlin (BGBM)

URL: <https://doi.org/10.3372/wi.34.34124>

BioOne Complete (complete.BioOne.org) is a full-text database of 200 subscribed and open-access titles in the biological, ecological, and environmental sciences published by nonprofit societies, associations, museums, institutions, and presses.

Your use of this PDF, the BioOne Complete website, and all posted and associated content indicates your acceptance of BioOne's Terms of Use, available at www.bioone.org/terms-of-use.

Usage of BioOne Complete content is strictly limited to personal, educational, and non - commercial use. Commercial inquiries or rights and permissions requests should be directed to the individual publisher as copyright holder.

BioOne sees sustainable scholarly publishing as an inherently collaborative enterprise connecting authors, nonprofit publishers, academic institutions, research libraries, and research funders in the common goal of maximizing access to critical research.

doi:10.3372/wi34.34124 (available via <http://dx.doi.org/>)

PEDRO ALEJANDRO GONZÁLEZ GUTIÉRREZ & JUAN LUIS VERDECÍA GÓNGORA

First record of *Oenothera kunthiana* (*Onagraceae*) for the flora of Cuba

Abstract

González Gutiérrez, P. G. & Verdecía Góngora, J. L.: First record of *Oenothera kunthiana* (*Onagraceae*) for the flora of Cuba. – Willdenowia 34: 295-296. – ISSN 0511-9618; © 2004 BGBM Berlin-Dahlem.

Oenothera kunthiana, so far known from USA, Mexico, Mesoamerica and Brazil, is newly recorded from northeastern Cuba, Holguín province. A map of its distribution in Cuba is given.

Alain (1957, 1969) in his treatment of the *Onagraceae* gives three species, all widespread, of *Oenothera* for the flora of Cuba, viz. *O. humifusa* Nutt., *O. laciniata* Hill. and *O. rosea* L'Hér. ex Aiton. *Oenothera* is a genus of chiefly temperate America, but many of its 124 species are introduced elsewhere (Mabberley 1997).

An *Oenothera* species different from the three known ones was collected by us in the framework of the project “Visión Ambiental”, carried out in the region of Corinthia in 1999, as a weed in sugarcane fields located between the communities Carenerito Cuatro and Playa Corinthia. In May 2000 the same species was gathered near Corinthia at the entrance to Bahía de Tánamo (Tánamo Bay) in the eastern part of Playa Barrederas (Barrederas beach), in herbaceous communities. Its recollection in a different locality one year after its first collection indicates that the species has established on Cuba, although it is perhaps only a very recent introduction.

The material of the *Oenothera* species was compared with the holdings in four Cuban herbaria (HAC, HAJB, HIPC and HMC), without success. Finally, W. Wagner (United States National Herbarium) recognized the species on a specimen photograph as *O. kunthiana* (Spach) Munz.

Oenothera kunthiana is a lowland species distributed from Texas across Mexico to Guatemala (Munz 1965), but spreads according to the studies of Wagner in the USA, Mexico, Mesoamerica and Brazil (one record). On the continent it grows in open and disturbed places, by



Fig. 1. Known distribution of *Oenothera kunthiana* on Cuba; 1: between Carenerito Cuatro and Playa Corinthia; 2: surroundings of the entrance of Bahía de Tánamo.

roadsides and in cultivations, hence under largely similar conditions as in those places where we have seen and collected it in Cuba.

A voucher is deposited at HAJB under the number 79 894. The localities where the species has been collected in Cuba are shown in Fig. 1.

References

- Alain [Bro.] 1957: Flora de Cuba, 4. Dicotiledóneas: *Malpighiaceae* a *Myrtaceae*. – Contr. Ocas. Mus. Hist. Nat. Colegio “De La Salle” **13**.
 — 1969: Flora de Cuba. Suplemento. – Caracas.
 Mabberley, D. J. 1997: The plant-book. A portable dictionary of the higher plants, ed. 2. – Cambridge.
 Munz, P. A. 1965: *Onagraceae*. – N. Amer. Fl., ser. 2, **5**: 1-231.

Acknowledgements

We are grateful to Dr Warren Wagner for identification of the species, and to Dr Emily Wood, Dr Kanchi Gandhi and Dr Dan Nicolson for their kind help to contact with Dr Warren Wagner.

Address of the authors:

Pedro Alejandro González Gutiérrez & Juan Luis Verdecía Góngora, Centro de Investigaciones y Servicios Ambientales y Tecnológicos (CISAT)-CITMA, Calle 18 # 1, Entre 1ª y Maceo, El Llano, Holguín 80 100, Cuba; e-mail: pagg@cisat.holguin.inf.cu