

# Update of Four Cuban *Coccothrinax* (Arecaceae) Types in Accordance with the Shenzhen Code

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The objective of this paper is to update the recent typification of four Cuban *Coccothrinax* types (Moya 2018, Moya and Méndez 2018) so that they are in accordance with amendments recently introduced to the International Code of Nomenclature for Algae, Fungi and Plants (Turland et al. 2018) at the Nineteenth International Botanical Congress in Shenzhen, China in 2017.

This update is necessary to be in accordance with Articles 9.1 and 9.2 of the Shenzhen Code (Turland et al. 2018), which relates to the designation of types in original publications. The new rules laid out in these articles make unnecessary the recent lectotypifications that we had made (Moya 2018, Moya and Méndez 2018). Thus, this paper corrects our previous actions and enables the 15 herbaria that we consulted to make necessary corrections on 50 specimens that we examined.

The current interpretation of Articles 9.1 and 9.2 of the Shenzhen Code (Turland et al. 2018) is “Any designation of the type made by the original author, if definitely expressed at the time of the original publication of the name of the taxon, is final,” which means, if a single specimen or illustration is mentioned in the protologue, it is now automatically the holotype and does not have to be explicitly designated as such (W. Greuter, pers. comm.).

In the protalogues of *Coccothrinax acuminata* Griseb. & H. Wendl. ex Becc (Beccari 1907), *C. miraguama* [without rank] *novo-geronensis* Becc. (Beccari 1913), and *C. miraguama* var. *arenicola* León and *C. yuraguana* León (León 1939), reference is made to the specimens Wright 3966, Curtiss 423, León 16146, and León 16103, respectively. These specimens automatically become holotypes in accordance with the Articles 9.1 and 9.3 of Shenzhen Code (Turland et al. 2018). Therefore, the updated taxonomy and nomenclature of these taxa are the following:

***Coccothrinax acuminata*** Griseb. & H. Wendl. ex Becc., Webbia. 2: 313. 1907. (**Fig. 1**). *Thrinax acuminata* Griseb. & H. Wendl., in Sauvalle, Anales Acad. Ci. Med. Habana, 8: 563. 1871. *nom. nud.*

Type. CUBA. Provincia Artemisa, municipio San Cristobal, Balestena, 23 Feb. (1862 or 1864). Wright 3966 (holotype, K 000462859 [photo!]; isotypes: BRU 55645 [photo!], V 92098F1 [photo!], V 92098F2 [photo!], V 92098F3 [photo!], FI 51879 ex K[photo!], GH 28253 [photo!], GH 28254 [photo!], GH 28255 [photo!], K 462858 [photo!], NY 73060 [photo!], NY 73076 [photo!], NY 73077 [photo!], NY 73078 [photo!], NY 73079 [photo!], P 725688 [photo!], P 725689 [photo!], US 87368 [photo!], US 87369 [photo!]).



1. *Coccothrinax acuminata*, at the type locality of *C. miraguama* subsp. *arenicola*, Sabanalamar, Guanes, Pinar del Rio, Cuba. (D. R. Hodel).



2. *Coccothrinax yuraguana*, at or near the type locality, Pinar del Rio, Cuba. (D. R. Hodel).

*Coccothrinax miraguama* var. *novo-geronensis* (Becc.) Dahlgren, Field Mus. Nat. Hist. Bot. Series 14: 107. 1936. *Coccothrinax miraguama* [without rank] *novo-geronensis* Becc., Pomona Coll. J. Econ. Bot. 3: 409. 1913.

Type. CUBA. Municipio Isla de la Juventud, dry ground of poor quality near Nueva Gerona, Isla de Pinos, W.I., April (ft.)-1 May (fl.) 1904, Curtiss 423 (holotype, Fl 051884 [photo!]; isotypes: CM 422028 [photo!], CM 422029 [photo!], G 305367 [n.v.], K 632580 [photo!], K 632581 [photo!], LE 793 [photo!], HAC!, M 208181 [photo!], NY 1661902 [photo!], NY 1662094 [photo!], NY 1662095 [photo!], NY 1662105 [photo!], US 14965 [photo!], VT 117062 [photo!], MO 559592 [n.v.], MO 559593 [n.v.]).

*Coccothrinax miraguama* subsp. *arenicola* (León) Borhidi & O. Muñiz, Bot. Közlem. 58: 175. 1971. *Coccothrinax miraguama* var. *arenicola* León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 114. 1939.

Type: CUBA. Provincia Pinar del Río, municipio Guane, sabana arenosa, Hacienda Sabanalamar, El Sábalo (Pinar del Río), ft., 20 Aug. 1934, León 16146 (holotype, HAC-LS4387!; isotypes: HAC-UO1!, HAC-UO2!, HAC-UO3!, US 14992 [photo!], US 14993 [photo!], US 14994 [photo!], US 14995 [photo!])).

***Coccothrinax yuraguana*** León, Mem. Soc. Cub. Hist. Nat. "Felipe Poey" 13: 119. 1939. (**Fig. 2**).

Type: CUBA. Provincia Artemisa, municipio Bahía Honda, Finca Imposible, Las Pozas (Pinar del Río), Apr. 1934, ft., León 16103, collector G. Nateson (holotype, HAC-LS 4471!; isotypes: HAC-LS1!, HAC-LS2!, HAC-LS3!, US 1210480 [n.v.]).

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