

**SYNOPSIS WITH NEW COMBINATIONS OF *HELIOTROPIUM*
(*HELIOTROPIACEAE*, *BORAGINALES*)
FOR TAXA FROM THE WEST INDIES PREVIOUSLY IN *TOURNEFORTIA***

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ABSTRACT

In the Catalogue of Seed Plants of the West Indies, the genus *Tournefortia* sensu stricto was accepted, but as more data suggest it should be included in *Heliotropium*, it feels useful to provide a list of the additional names in *Heliotropium*. Sixteen species are cited, including nine new combinations and one new name.

Recent papers (Feuille 2019, 2020) provide new names in *Heliotropium* for *Tournefortia* species in preparation of the Boraginales treatment for Flora of the Guianas and give the reason why this is necessary. A checklist and new combinations are provided here as an addition to the Feuille treatment (2012) of the Heliotropiaceae in the Catalog of Seed Plants of the West Indies.

1. ***Heliotropium astrotrichum*** (DC.) Govaerts, Skvortsovia 4: 92. 2018. Basionym: *Tournefortia astrotricha* DC., Prodr. 9: 520. 1845.

- 1a. ***Heliotropium astrotrichum* var. *astrotrichum***

Distribution—Cayman Islands and Jamaica.

- 1b. ***Heliotropium astrotrichum* var. *subglabrum*** (Stearn) Govaerts, Skvortsovia 4: 92. 2018. Basionym: *Tournefortia astrotricha* var. *subglabra* Stearn, J. Arnold Arbor. 52: 633. 1971.

Distribution—Cayman Islands and Jamaica.

2. ***Heliotropium caribaeum*** (Griseb.) Feuille, **comb. nov.** Basionym: *Tournefortia caribaea* Griseb., Fl. Brit. W. I. 484. 1862.

Distribution—Dominica and Martinique.

3. ***Heliotropium cuspidatum*** (Kunth) Feuille, Phytoneuron 2019–63: 1. Basionym: *Tournefortia cuspidata* Kunth in H.B.K., Nov. Gen. Sp. (quarto ed.) 3: 83. 1818.

= *Tournefortia obscura* A. DC., Prodr. 9: 517. 1845.

= *Tournefortia setifera* Urb. & Ekman, Ark. Bot. 22^a(17): 94. 1929.

Distribution—West Indies, Central and South America.

4. ***Heliotropium filiflorum*** (Griseb.) Feuillet, **comb. nov.** Basionym: *Tournefortia filiflora* Griseb., Fl. Brit. W. I. 483. 1862.
Distribution—West Indies.
5. ***Heliotropium foetidissimum*** (L.) Feuillet, **comb. nov.** Basionym: *Tournefortia foetidissima* L., Sp. Pl. 141. 1753.
Distribution—Mexico, Hispaniola, Jamaica, and South America.
6. ***Heliotropium funkiae*** Feuillet, 2020. Phytoneuron 2020-12: 1. Basionym: *Tournefortia bicolor* Sw., Prodr., 40. 1788. *Tournefortia hirsutissima* f. *bicolor* (Sw.) D.L. Nash, Fl. Veracruz 18: 141. 1981; not *Heliotropium bicolor* Hochst. & Steud. = ***Euploca strigosa*** (Willd.) Diane & Hilger
= *Tournefortia alba* Splitgerber ex DeVriese, Nederl. Kruidkund. Arch. 1: 347. 1848. *Heliotropium album* (Splitgerber ex De Vriese) Feuillet, 2019; not *Heliotropium album* St.-Lag., in A. Cariot, Étude Fl., ed. 8, 2: 614 (1889); nom. illeg. for *Heliotropium europaeum* L.
Distribution—West Indies, Central and South America.
7. ***Heliotropium gibberosum*** (Urb.) Feuillet, **comb. nov.** Basionym: *Tournefortia gibberosa* Urb., Symb. Antill. 7: 349. 1912.
Distribution—Dominican Republic.
8. ***Heliotropium glabrum*** (L.) Feuillet, **comb. nov.** Basionym: *Tournefortia glabra* L., Sp. Pl. 141. 1753.
Distribution—Mexico, Central America, and West Indies.
9. ***Heliotropium gnaphalodes*** L. Syst. Nat., ed. 10. 2: 913. 1759. Basionym: *Tournefortia gnaphalodes* (L.) R. Br. ex Roem. & Schult., Syst. Veg. 4: 538. 1819.
Distribution—USA and West Indies.
10. ***Heliotropium laevigatum*** (Lam.) Feuillet, **comb. nov.** Basionym: *Tournefortia laevivata* Lam., Tabl. Encycl. 1: 416. 1792. *Tournefortia bicolor* var. *laevigata* M. Gomez, Anales Soc. Esp. Hist. Nat. 19: 256. 1890.
Distribution—West Indies.
11. ***Heliotropium lamarckii*** Feuillet, **nom. nov.** Basionym: *Tournefortia scabra* Lam., Tabl. Encycl. 1: 417. 1792; non *Heliotropium scabrum* Retz., Observ. Bot. 2: 8. 1781; non *Heliotropium scabrum* Lehm., Asperif. Nucif. 1: 70. 1818.
Distribution—Greater Antilles and Virgin Islands (St. Thomas).
12. ***Heliotropium roigii*** (Britton) Feuillet, **comb. nov.** Basionym: *Tournefortia roigii* Britton, Bull. Torrey Bot. Club 53: 462. 1926.
Distribution—Cuba.

13. ***Heliotropium selleanum*** (Urb. & Ekman) Feuillet, **comb. nov.** Basionym: *Tournefortia selleana* Urb. & Ekman, Ark. Bot. 20^a(5): 43. 1926.

Distribution—Haiti.

14. ***Heliotropium smaragdinum*** (Proctor) Feuillet, **comb. nov.** Basionym: *Tournefortia smaragdina* Proctor, J. Arnold Arbor. 63: 296. 1982.

Distribution—Jamaica.

15. ***Heliotropium stamineum*** (Griseb.) Feuillet, **comb. nov.** Basionym: *Tournefortia staminea* Griseb., Fl. Brit. W. I. 484. 1862.

Distribution—Jamaica.

16. ***Heliotropium verdcourtii*** Craven, Blumea 50: 378. 2005. Basionym: *Tournefortia hirsutissima* L., Sp. Pl. 1: 140. 1753.

Distribution—USA, Mexico, Central America, West Indies, and South America.

LITERATURE CITED

- Feuillet, C. 2012. Boraginaceae. Pp. 157–174 in P. Acevedo-Rodriguez and M.T. Strong. Catalog of Seed Plants of the West Indies. Smithsonian Inst. Scholarly Press, Washington D.C.
- Feuillet, C. 2019. New combinations in *Heliotropium* for four New World species of *Tournefortia* (Heliotropiaceae, Boraginales). Phytoneuron 2019-63: 1–2.
- Feuillet, C. 2020. Correction for Feuillet (2019): *Heliotropium funkiae*, a new name for *Heliotropium album* (Splitgerber ex De Vriese) Feuillet (Heliotropiaceae, Boraginales). Phytoneuron 2020-n: 1.