

67h. *Geonoma undata* subsp. *tacarcunensis* Henderson, subsp. nov. (Appendix IV, Plate 67)

A subspeciebus aliis foveis remote sitis differt.

Type: PANAMA. Darién: Parque Nacional del Darién, Panama/Colombia border, near gold mine at head waters of N branch of Río Pucuro, slopes of Cerro Tacarcuna, ca. 6 km N of Cerro Mali, 8°09'N 77°15'W, 1300–1500 m, 27 October 1987, *G. de Nevers, B. Hammel & H. Herrera 8511* (holotype NY!, isotype MO!).

Leaves veins raised and rectangular in cross-section adaxially; basal pinna 2.6(2.4–2.7) cm wide; apical pinna no data. *Inflorescences* prophyll margins with irregular, spine-like projections; flower pits usually spirally arranged, distantly spaced.

Distribution and habitat:—At 8°09'N and 77°15'W on Cerro Tacarcuna on the Panama-Colombia border at 1612(1400–1825) m elevation in montane rainforest (Fig. 43).

67i. *Geonoma undata* subsp. *tumucensis* Henderson, subsp. nov. (Appendix IV, Plate 68)

A subspeciebus aliis foveis decussatis differt.

Type: SURINAME. Inselberg Talouakem, Massif des Tumuc-Humac, 2°29'N, 54°45'W, 620 m, 16 August 1993, *J.-J. de Granville, P. Acevedo, A. Boyer & L. Hollenberg 12322* (holotype NY!, isotype US!).

Leaves veins raised and rectangular in cross-section adaxially; basal pinna 3.0 cm wide; apical pinna no data. *Inflorescences* prophyll margins with irregular, spine-like projections; flower pits decussately arranged, not closely spaced.

Distribution and habitat:—From 2°15'–2°29'N and 54°25'–54°45'W on the Tumuc-Humac mountains in French Guiana and Suriname at 610(600–620) m in lowland rainforest (Fig. 44).

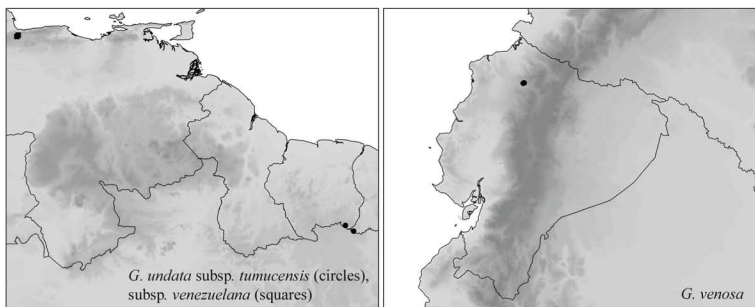


FIGURE 44. Distribution maps of *Geonoma undata* subsp. *tumucensis*, *G. undata* subsp. *venezuelana* and *G. venosa*.

67j. *Geonoma undata* subsp. *venezuelana* Henderson, subsp. nov. (Appendix IV, Plates 69–71)

A subspeciebus aliis pinnis basalibus atque apicalibus angustis differt.

Type: VENEZUELA. Carabobo: Mpio. Bejuma, parte superior de la Fila La Mesa, Valle de Chirgua, finca Monte Sacro, 1250–1300 m, 28 November–1 December 1996, *F. Stauffer, A. Fernández, R. Riina & K. Walther-Weissbeck 262* (holotype VEN *n.v.*, isotype NY!).