Montaña San Ildefonso, Hodel et al. 1272 (AGUAT BH EAP), 1273 (holotype BH; isotypes AGUAT EAP).

The specific epithet of the new species honors Dr. Antonio Molina (1926-) of the Escuela Agrícola Panamericana, long a collector of numerous, significant, and excellent specimens of Central American plants.

Chamaedorea moliniana is closest to C. parvisecta but the latter differs in its much fewer (7–10 vs. 17–20) and broader pinnae, shorter petioles, and thicker pistillate rachillae. In the key to subgenus Chamaedoropsis (Hodel 1992a, p. 120), C. moliniana would key out next to C. parvisecta.

The habit of Chamaedorea moliniana is unusual, but not without parallel in the genus. Seedlings develop pinnate leaves at a very early stage (Fig. 4), perhaps as early as the second leaf. Soon plants develop normal, adult-sized leaves but lack a visible stem. However, plants actually possess a short, curving, rooting, subterranean stem with highly congested nodes, and begin to produce smaller, few-branched inflorescences during this “stemless” phase. Later, after perhaps as many as several years, they produce a visible, elongated stem to several meters tall with larger, much-branched inflorescences.

Plants of the two stages are easily mistaken as distinct species since their habit and inflorescences can differ dramatically. Other species of the genus exhibiting this or a similar phenomenon include Chamaedorea dammeriana and C. macrospadix from Costa Rica and Panama, C. anemophila from Panama, C. volcanensis from Guatemala, C. parvisecta from Guatemala, Mexico, and C. queroana, C. radicalis, and C. whitelockiana from Mexico (Hodel 1992a, 1994).

Chamaedorea frondosa Hodel, J. J. Castillo & Zúñiga sp. nov. (Figs. 5–8).

Subgeneris Chamaedoropsis Oerst. inflorescentis masculis solitariis, floribus masculis solitariis petalis patentibus apicaliter. Species insignis habit nano fruticoso, foliis numerosis bifidis obscure nervatis inflorescentis erectis ramosis, a speciebus nobis notis bene distincta; C. pumilae H. A. Wendl. affinis sed rachillis masculis erectis differt. Typus: Honduras, Cortés, Montaña San Ildefonso, Hodel et al. 1274 (holotype BH; isotypes AGUAT, EAP, F, MO).

Solitary, erect or briefly decumbent then erect, to 70 cm tall (Figs. 5, 6, 8); stem short, 1.2–1.5 cm diam., prominently ringed, internodes 1.8 cm long. Leaves 12–15 (–20), erect-spreading (Figs. 5, 6, 8), bifid, ± thick, ± coriaceous; sheaths to 10 cm long, long-open, deeply split opposite petiole, tubular and completely encircling stem in basal ½ only; petioles to 11 cm long, green and grooved adaxially, pale green and rounded abaxially; blades to 42 × 12 cm, long-oblong, rich forest green, infrequently very slightly mottled, incised apically to ¼–⅜ its length, apical lobes conspicuously toothed on outer margins, rachises of blades to 32 cm long, 10–12 primary nerves on each side of rachis, 1 secondary vein between each pair of 2 primary, tertiary veins numerous and faint, all nerves ± obscure adaxially but raised, pale and more conspicuous abaxially. Inflorescences 3 per plant, interfoliar, erect in flower, sometimes nodding in fruit; peduncles to 40 cm long, 2–5 mm diam. at apex, 4–10 mm wide at base and ± flattened, green, straight and erect in flower, orange where exposed and nodding in fruit; bracts 5, prophyll to 3 cm long, 2nd bract to 8 cm, 3rd to 11 cm, 4th and 5th to 14 cm, 5th one exceeding peduncle, all tubular, tightly sheathing, papery, longitudinally nervet, lower ones acute and obliquely open, upper ones acuminate and long-open, sometimes a thin 6th bract to 3 cm long subtending lowest rachilla; staminate spicate or with up to 5 rachillae, these to 23 cm long, 1.5 mm diam., erect (Fig. 7), longitudinally angled when dry, green in flower. Stamine flowers in moderately dense spirals, 0.6–1 mm distant, superficial, leaving elliptic scars 0.5 × 1 mm, flowers at anthesis 4 × 2.5–3 mm, obovoid; calyx 1 × 3 mm, cuplike, shallowly lobed, sepals connate nearly to apex, ± straight or only briefly acute apically; petals 4–4.5 × 2.5 mm, ovate, valvate, spreading, distinct nearly to base and there briefly connate; stamens 2.5–3 mm high, just shorter than pistilode, filaments 1 mm long, flattened, 0.2–0.25 mm wide, anthers 1.75 mm long, elliptic, bilobed, dorsifixed near base; pistilode 3 mm high, shorter than petals, columnar. Pistillate inflorescence spicate (Fig. 8), rachis or flower-bearing portion to 14 cm long, orange in fruit and 1.5–2 mm diam. Pistillate flowers in moderate spirals, 2–4 mm distant, superficial or only slightly sunken, leaving elliptic scars 2 mm long, flowers post-anthesis 2 × 2 mm, globose; calyx 1 × 2 mm, moderately lobed, sepals connate and/or imbricate in basal ½–⅔, rounded apically; petals 2 × 2 mm, broadly obovate, cup-shaped, imbricate in basal ¾, faintly nervecl abaxially when dry, acute or slightly mucronate and erect api-
cally; pistil $1.75 \times 0.75$ mm, oblong-globose, stigma lobes short. Fruits 6–7 mm diam., ± globose, black; seeds 5–6 mm diam., globose. Eophyll bifid.

**Distribution:** HONDURAS. Cool, wet, cloud forest; 1,700 m elevation.

**Specimens Examined:** HONDURAS. Cortés: Montaña San Ildefonso, Molina 8192 (EAP); Hodel et al. 1274 (holotype BH; isotypes AGUAT EAP F MO), 1275 (AGUAT BH EAP).

The epithet of the new species is from the Latin *frondosus*, meaning leafy and refers to the numerous leaves, sometimes as many as 20, in its crown. Indeed, individual plants of *Chamaedorea frondosa* may have more leaves than any other species in the genus. Only *C. tuerckheimii* approaches *C. frondosa* in the number of leaves in its crown. By virtue of its leafy habit, *C. frondosa* is one of the most remarkable and handsome of the numerous,
dwarf, bifid-leaved species in the genus. Its numerous leaves and dwarf stature give it an attractive, full, bushy appearance.

Florally, *Chamaedorea frondosa* is probably closest to members of the *C. pumila* complex of species, including *C. pumila*, *C. minima*, and *C. sullianiorum*. However, the last three differ in their crowns of fewer leaves, the conspicuously nerved and corrugated leaf blades, and the pendulous staminate rachillae. The obscurely nerved, fairly thick blades of *C. frondosa* are not too unlike those of *C. geonomiformis* and *C. tenella* but the last two species have fewer leaves and pendulous staminate rachillae. In the key to subgenus *Chamaedoropsis* (Hodel 1992a, p. 120), *C. frondosa* would key out next to *C. rigida*, *C. stricta*, and *C. volcanensis*, which differ in their drooping or pendulous staminate rachillae, and *C. queroana*, which differs in its blades apically incised to more

7. Erect, staminate rachillae of *Chamaedorea frondosa*, Hodel et al. 1275, Cortés, Honduras. 8. Fruiting plant of *Chamaedorea frondosa*, Hodel et al. 1274 (holotype); cool, wet, cloud forests, Cortés, Honduras.
than one-half their length and its infrafoliar inflorescences.

The publication of these two new species, along with our “rediscovery” of Chamaedorea donnell-smithii (Hodel et al. 1994) and the recent discovery of C. tuerckheimii in Honduras, brings to 17 the total number of species of the genus in the country. They are:

- C. arenbergiana
- C. brachypoda
- C. costaricana (C. quezalteca)
- C. seifrizii (C. donnell-smithii)
- C. elatior
- C. ernesti-augusti
- C. frondosa
- C. geonomiformis
- C. moliniana
- C. neurochlamys
- C. nubium
- C. oblongata
- C. pinnatifrons
- C. sartorii
- C. tepejilote
- C. tuerckheimii
- C. woodsoniana

The restricted distribution of the two new species named and described here may be more apparent than real. Generally, Honduras is poorly collected, and further field work there may prove rather revealing and fruitful, especially for Chamaedorea. Several little explored, isolated, mountain-top cloud forests in Honduras (such as the Montaña San Ildefonso), arising from the extensive, seasonally dry pine forest like islands in a sea, could easily harbor their own new species and/or new records for Chamaedorea.

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Literature Cited


