

A specimen (*Amorim* 4208) from central Bahia has unusual, elongate bracts, and is from a higher elevation (750 m). It may be a hybrid with *G. pauciflora*.

There is a gap in the distribution of subsp. *pohliana* in northern Espírito Santo, and this gap is occupied by subsp. *Inharenensis*. There are no differences between northern and southern populations of subsp. *pohliana*, although northern populations occur at lower mean elevations (287 versus 624 m).

Five specimens (*dos Santos* s. n., *Fernandes* 1135, 3107, *Fraga* 2117, *Mello-Silva* 1570) from the central part of Espírito Santo in the Serra da Mantequeira appear to be intermediate in morphology between subsp. *pohliana* and subsp. *schottiana* and may be hybrids between these subspecies.

Some specimens (e.g., *Fiaschi* 163, 552) from eastern São Paulo have more, narrower pinnae (mean of 8 versus 4) and appear larger than usual.

Two specimens (*Lombardi* 348, 1550), unplaced for morphotype, from the Rio Doce valley in Minas Gerais have three broad pinnae and narrow inflorescence bracts.

**51b. *Geonoma pohliana* subsp. *fiscellaria* (Martius ex Drude & Wendland) Henderson, comb. & stat. nov.**

Basionym: *Geonoma fiscellaria* Martius ex Drude (1882: 486). Type: BRAZIL. Rio de Janeiro: Retiro de Petropolis, no date, A. Glaziou 1180 (holotype BR!, isotype P!).

Leaves pinnae 21(19–23) per side of rachis. Inflorescences rachillae 8(14–21), 3.7(3.0–4.8) mm in diameter, hairy, not filiform and not or scarcely narrowed between the flower pits; proximal and distal lips drying the same color as the rachillae; triads mostly spirally arranged.

**Distribution and habitat:**—At 22°00'–22°28'S and 42°03'–44°27'W in the Atlantic Coastal Forest of Brazil in the Serra do Mar and Serra da Mantequeira in Rio de Janeiro at 1050(900–1100) m elevation in montane tropical rainforest (Fig. 33).

**51c. *Geonoma pohliana* subsp. *gastoniana* (Glaziou ex Drude) Henderson, comb. & stat. nov.**

Basionym: *Geonoma gastoniana* Glaziou ex Drude (1882: 496). Type: BRAZIL. Rio de Janeiro: haut de Tinguá, 7 June 1877, A. Glaziou 9019 (holotype P!, isotypes BR!, C n.v., FI!, K!).

Leaves pinnae 3 per side of rachis. Inflorescences rachillae 19, 0.5 mm in diameter, not hairy, filiform, narrowed between the flower pits; proximal and distal lips drying darker brown than the rachillae; triads mostly spirally arranged.

**Distribution and habitat:**—At 22°35'S and 43°28'W in the Atlantic Coastal Forest of Brazil in the Serra do Mar in Rio de Janeiro at 900 m elevation in lowland tropical rainforest (Fig. 34).

**51d. *Geonoma pohliana* subsp. *kuhlmannii* (Burret) Henderson, comb. & stat. nov.**

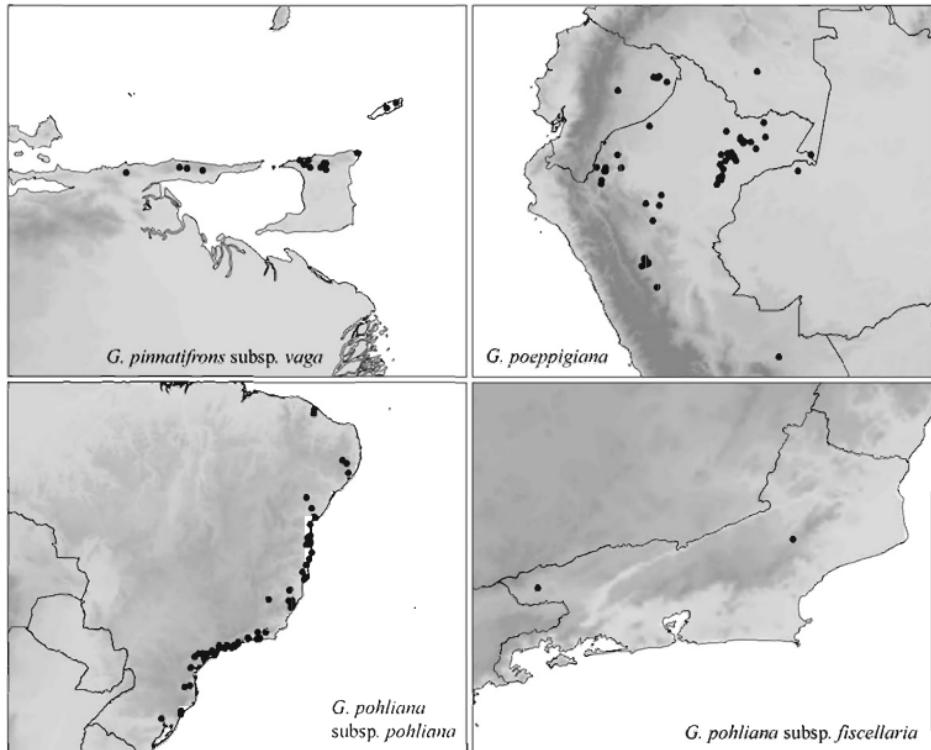
Basionym: *Geonoma kuhlmannii* Burret (1938b: 261). Type: BRAZIL. Rio de Janeiro: Nova Friburgo, 20 November 1922, J. Kulthmann 141 (holotype B, destroyed, isotype RB!).

Leaves pinnae 3(3–4) per side of rachis. Inflorescences rachillae 5(4–9), 2.8(2.3–3.2) mm in diameter, not hairy, not filiform and not or scarcely narrowed between the flower pits; proximal and distal lips drying darker brown than the rachillae; triads mostly spirally arranged.

**Distribution and habitat:**—From 22°15'–22°53'S and 42°30'–43°16'W in the Atlantic Coastal Forest of Brazil in the Serra do Mar in Rio de Janeiro at 783(300–1300) m elevation in lowland tropical rainforest (Fig. 34).

**51e. *Geonoma pohliana* subsp. *inharenensis* Henderson, subsp. nov. (Appendix IV, Plate 54)**

*A subspeciebus alis pinnis in quoque latere 4(2–7) atque rachillis 9(5–10) crebre pilosis differt.*



**FIGURE 33.** Distribution maps of *Geonoma pinnatifrons* subsp. *vaga*, *G. poeppigiana*, *G. pohliana* subsp. *pohliana*, and *G. pohliana* subsp. *fiscellaria*.

**50. *Geonoma poeppigiana* Martius (1843: 35). Type: PERU. Loreto: Yurimaguas, February 1891, E. Poeppig 2295 (holotype M!).**

*Plants* 1.9(1.0–4.0) m tall; stems 0.9(0.1–4.0) m tall, 1.6(1.2–2.0) cm in diameter, solitary, not cane-like or cane-like; internodes 0.5(0.3–0.8) cm long, yellowish and smooth, or, if short and congested, not scaly. *Leaves* 11(4–16) per stem, undivided or irregularly pinnate, not plicate, bases of blades running diagonally into the rachis; sheaths 16.9(10.0–25.0) cm long; petioles 49.8(30.0–100.0) cm long, drying green or yellowish; rachis 58.4(36.5–100.0) cm long, 4.8(2.3–7.9) mm in diameter; veins raised and rectangular in cross-section adaxially or not raised or slightly raised and triangular in cross-section adaxially; pinnae 4(1–11) per side of rachis; basal pinna 36.8(13.5–60.5) cm long, 4.9(0.5–15.3) cm wide, forming an angle of 40(12–90)° with the rachis; apical pinna 30.0(10.3–45.0) cm long, 15.1(3.3–24.5) cm long, forming an angle of 28(20–45)° with the rachis. *Inflorescences* unbranched or branched 1 order; prophylls and peduncular bracts not ribbed with elongate, unbranched fibers, flattened (if tubular, narrow, and elongate then not ribbed), deciduous or persistent; prophylls 27.8(15.5–40.0) cm long, not short and asymmetrically apiculate, the surfaces not ridged, without unequally wide ridges; peduncular bracts 25.8(21.0–38.0) cm long, well-developed, inserted 2.1(0.7–4.7) cm above the prophyll; peduncles 56.1(28.0–89.0) cm long, 5.6(1.9–11.1) mm in diameter; rachillae 4(1–10), 25.8(9.7–40.0) cm long, 4.2(1.9–7.1) mm in diameter, the surfaces without spiky, fibrous projections or ridges, drying brown or yellow-brown, without short, transverse ridges, not filiform and not narrowed