

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. *linharensis*. 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 Mantiqueira 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 Mantiqueira 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.*, F!, 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. Kuhlmann 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. *linharensis* Henderson, subsp. nov. (Appendix IV, Plate 54)

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

Type: BRAZIL. Espírito Santo: Reserva Florestal da CVRD, Linhares, 15 March 1989, *G. Farias 258* (holotype MBML!, isotype NY!).

Leaves pinnae 3(3–4) per side of rachis. *Inflorescences* rachillae 9(5–15), 4.3(3.7–5.0) mm in diameter, densely hairy, not filiform and not narrowed between the flower pits; proximal and distal lips drying the same color as the rachillae; flower pits mostly spirally arranged.

Distribution and habitat:—From 18°04'–19°10'S and 39°33'–40°24'W in the Atlantic Coastal Forest of Brazil in southern Bahia and northern Espírito Santo at 35(30–40) m elevation in lowland rainforest (Fig. 34).

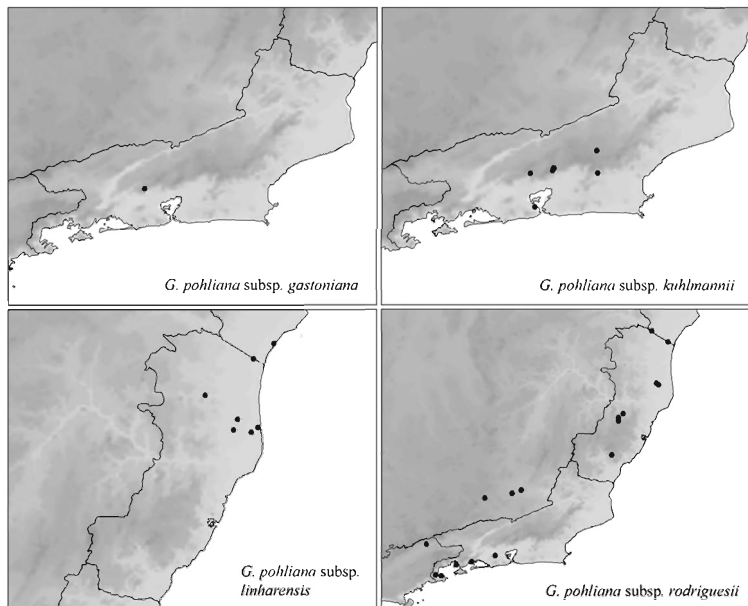


FIGURE 34. Distribution maps of *Geonoma pohliana* subsp. *gastoniana*, *G. pohliana* subsp. *kuhlmannii*, *G. pohliana* subsp. *linharensis*, and *G. pohliana* subsp. *rodriguesii*.

51f. *Geonoma pohliana* subsp. *rodriguesii* Henderson, subsp. nov. (Appendix IV, Plate 55)

A subspeciebus aliis pinnis in quoque latere 4(2–7) atque rachillis 2(1–4) glabris differt.

Type: BRAZIL. Rio de Janeiro: Praia de João Gago, on Sepetiba Bay, on road to Mangaratiba, 22°56'S 43°59'W, 19 November 1966, *G. Gottsberger 14–191166* (holotype NY!).

Leaves pinnae 4(2–7) per side of rachis. *Inflorescences* rachillae 2(1–4), 5.4(4.0–7.1) mm in diameter, not 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.