

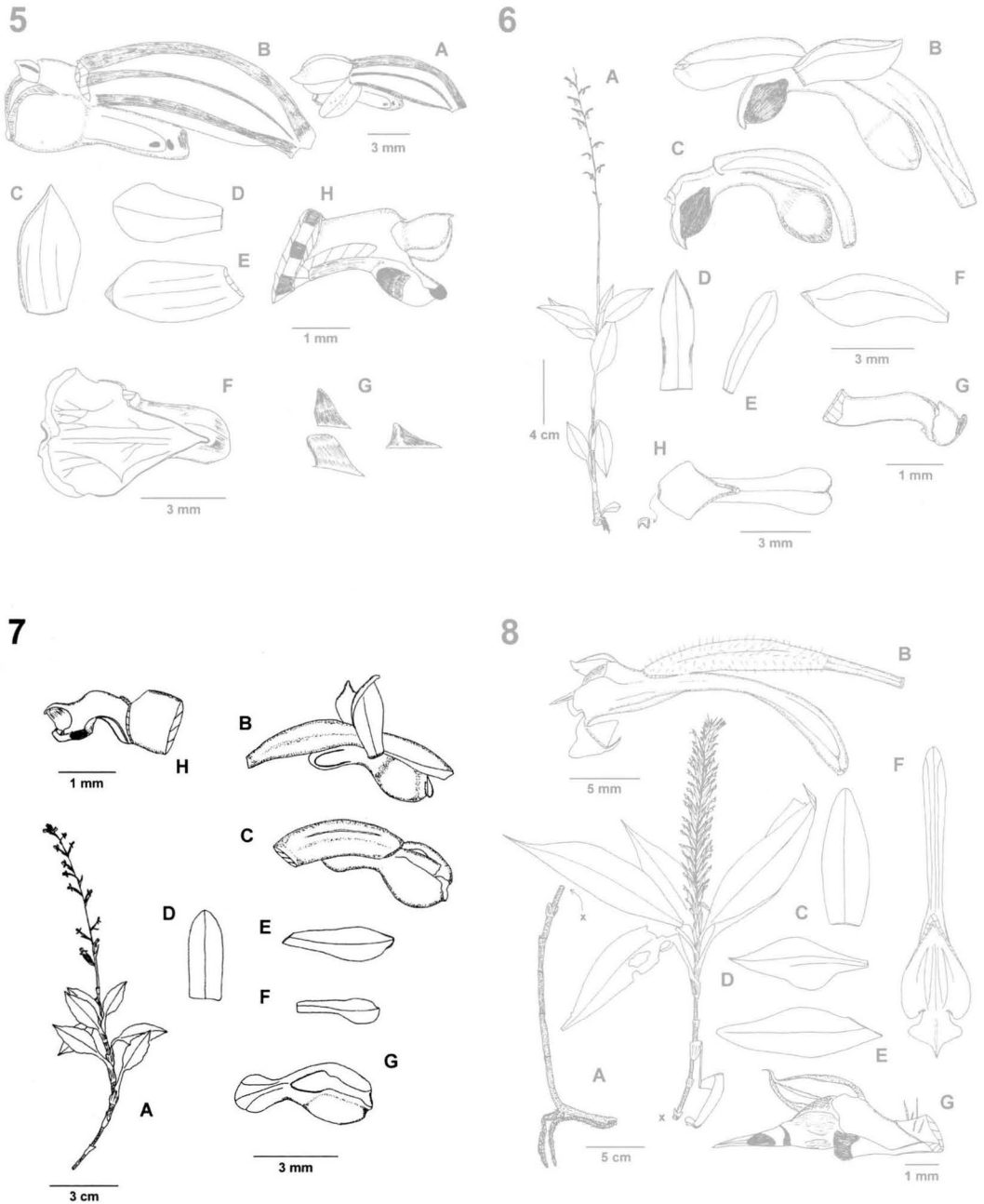
Kreodanthus sytsmae Ormerod, *sp. nov.* TYPE: PANAMA. Bocas del Toro: NW ridge of Cerro Pate Macho, from summit to Finca Serrano, 1200–2100 m, 27 May 1981, K. Sytsma, S. Knapp & L. Andersson 4945 (Holotype: MO). Fig. 7.

Affinis *K. curvatus* Ormerod *sed sepalis dorsalis brevioribus* (3.0 vs. 4.1 mm), *calcar brevioribus* (1.9 vs. 3.5–3.8 mm) *et columna ad medio curvatus* (non parte tertibus deflexis) *differt*.

Erect epiphytic herb. *Rhizome* creeping, terete, rooting at nodes, to 6.00 × 0.08–0.15 cm; internodes 0.30–0.45 cm long. *Stem* terete, 4–11-leaved, 6–7 × 0.15–0.20 cm; internodes 0.65–1.20 cm long. *Leaves* obliquely ovate to ovate-lanceolate, acute to subacuminate, edges crenulate, 1.6–2.2 × 0.65–0.90 cm; petiole and sheath 1.3–1.5 cm long. *Inflorescence* 8.5–11.4 cm long; peduncle 2.3–4.0 cm long; sheathing bracts 1–2, 0.65–1.50 cm long; rachis laxly to subdensely 17–23-flowered, 6.2–7.4 cm long; floral bracts ovate, acute, 3–6 × 2.0–3.5 mm. Pedicellate ovary cylindrical-fusiform, glabrous, 5 mm long. *Flowers* glabrous, light green. Dorsal sepal oblong-elliptic, obtuse, 3.0 × 1.4 mm. Lateral sepals obliquely oblong-oblancoate, subacute, reflexed, shallowly concave in upper half, 3.5 × 1.4–1.5 mm. Petals obliquely ligulate-oblancoate, subacute, 2.9 × 0.9 mm. *Labellum* spurred, entire, joined to column for 1 mm; spur oblongoid laterally, clavate dorsally, obtuse, 1.9 mm long, 1.25 mm wide dorsally; hypochile concave-cochleate, truncate, very fleshy, 1.75 × 1.5–2.0 mm. *Column* weakly arcuate, 1.6 mm long.

Distribution: Panama.

This species is related to the Costa Rican *K. curvatus* Ormerod but it has flowers with a shorter (3.0 vs. 4.1 mm) dorsal sepal, a shorter (1.9 vs. 3.5–3.8 mm) spur, and a shorter (1.6 vs. 1.9–2.0 mm) column that is medially (not apically) bent.



FIGURES 5–8. **5.** *Kreodanthus cajamarcae* Ormerod. **A**, flower; **B**, flower minus tepals; **C**, dorsal sepal; **D**, petal; **E**, lateral sepal; **F**, labellum and spur (spur split open); **G**, internal appendages of spur (not to scale); **H**, column (drawn from holotype). **6.** *K. curvatus* Ormerod. **A**, plant; **B**, flower; **C**, flower minus tepals; **D**, dorsal sepal; **E**, petal; **F**, lateral sepal; **G**, column; **H**, labellum and spur (labellum apex arrowed) (drawn from holotype). **7.** *K. sytsmae* Ormerod. **A**, plant; **B**, flower; **C**, flower minus tepals; **D**, dorsal sepal; **E**, lateral sepal; **F**, petal; **G**, labellum and spur; **H**, column (drawn from holotype). **8.** *Ligeophila clavigera* (Rchb.f.) Garay var. *rhodostachys* Ormerod. **A**, plant; **B**, flower minus tepals; **C**, dorsal sepal; **D**, petal; **E**, lateral sepal; **F**, labellum and spur; **G**, column (drawn from holotype).