



FIGURES 37–40. **37**, *Microchilus rioitayanus* Ormerod. A, plant; B, flower; C, flower minus tepals; D, dorsal sepal; E, petal; F, lateral sepal; G, labellum and spur; H, column (drawn from holotype). **38**, *Microchilus rojasii* Ormerod. A, plant; B, flower; C, dorsal sepal; D, lateral sepal; E, petal; F, flower minus tepals; G, column; H, labellum and spur (drawn from holotype). **39**, *Microchilus valverdei* Ormerod. A, plant; B, flower; C, dorsal sepal; D, petal; E, F, column minus pollinarium, lateral and ventral views; G, median lobe of rostellum (viscidium; not to scale); H, labellum and spur (drawn from holotype). **40**, *Stephanothelys siberiana* Ormerod. A, plant; B, flower; C, lateral sepal; D, dorsal sepal; E, petal; F, labellum and spur; G, column (drawn from holotype).

ish. Dorsal sepal ovate-oblong, obtuse, 6×2 mm. Lateral sepals obliquely oblong-ligulate, subacute, $6 \times 1.1\text{--}1.2$ mm. Petals narrowly obcuneate-ligulate, acute, 5.7×1.2 mm. Labellum spurred, trilobed, joined to column for 1 mm; spur oblongoid, obtuse, 3.5 mm long; hypochile subpandurate-obcuneate, inside basal half with 2 thin lamellate keels, 4.5 mm long, basal half 2 mm wide, upper half 2.5 mm wide; epichile transversely ligulate, papillose-pubescent, $1 \times 3.0\text{--}3.5$ mm. Column 3 mm long; viscidium (median lobe of rostellum) ligulate, apex truncate, dorsal surface with a fine median longitudinal groove.

Distribution: Costa Rica.

This species appears to be related to its Costa Rican congener *Microchilus calophyllus* (Rchb.f.) Ormerod, but it differs from that entity in having a more slender habit; obscurely variegated leaves; thin, translucent floral bracts; and in the labellum having 2 thin lamellate keels on the hypochile. *Microchilus calophyllus* has a stouter habit than *M. valverdei*, with strongly variegated leaves; thicker, opaque floral bracts; and a labellum hypochile that lacks keels.

Microchilus valverdei Ormerod, *sp. nov.*
 TYPE: COSTA RICA. San José, Tarrazu, San Lorenzo, Llanos de Santa Maria, 500–600 m, 26 January 1998, *O. Valverde 652* (Holotype: K; Isotype: CR [*n.v.*]). Fig. 39.

Affinis M. calophyllus (Rchb.f.) Ormerod *sed scapus gracilior, bracteis floribus tenuiter-paleaceo (non subcarnosis) et hypochilio labello intus bilamellatis (non elamellatis) dif-fert.*

Erect terrestrial herb. Stem terete, rooting from basal nodes, laxly 6-leaved, $22.6 \times 0.25\text{--}0.35$ cm, internodes 3.4–5.0 cm long. Leaves green with darker green variegation, obliquely elliptic to oblong-elliptic, subacuminate, $8.8\text{--}13.0 \times 4.40\text{--}5.35$ cm; petiole and sheath 3.8–5.0 cm long. Inflorescence pubescent, 35.3 cm long; peduncle $17.3 \times 0.125\text{--}0.150$ cm; sheathing bracts 4, scattered, thin, translucent, ovate-lanceolate, acute, 1.1–3.4 cm long; rachis subdensely many-flowered, 18 cm long; floral bracts ovate-lanceolate, acute, thin, translucent, $5\text{--}8 \times 1.5\text{--}2.0$ mm. Pedicellate ovary cylindrical-fusiform, greenish pubescent, 5–6 mm long. Flowers externally pubescent, sepals and petals white, lip green-