Plantae Chinenses Forrestianae.

Plants discovered and collected by George Forrest during his first exploration of Yunnan and Eastern Tibet in the years 1904, 1905, and 1906.

Description of New Species of Pirolaceae.

BY

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Bonn.

With Plates III–V.

Pirola decorata, Andres. Sp. nov. Plate iii.

Planta 15–35 cm. longa. Squamae anguste lanceolatae, longe acuminatae. Folia longe elliptica vel spathulata, apice rotundata, remote dentata, sensim in petiolum angustata, supra saturate viridia, nervis pallidioribus luteolis notata, subtus pallidiora, plerumque fuscescentia vel purpurascentia. Inflorescentia fere pyramidalis, 5–8–flora. Bracteae anguste lineares, pedicello longiores, plerumque accumbentes; pedicelli oblique erecti. Flores nutantes, late campanulati, ampli. Sepala lanceolata, subito rotundata vel sensim acuta, petala dimidia aequantia vel superantia, margine pallidiora. Petala ovata, 8–10 mm. longa, 4–5 mm. lata, viridulo-lutea. Staminum filamenta plana sursum curvata, antherae ovatae vel oblongo-rotundatae, basi saepe breviter apiculatae. Stylus plus minusve ex corolla exsertus, primo deorsum versus, dein subrectus; stigma quam stylus vix latius.

"Plant of 9–15 inches. Flowers yellowish. Dry situations in pine forests around and north of Lu-chang, Salwin valley, Salwin-Irrawadi divide. Lat. 26° 10′ N. Alt. 6000–9000 ft. November 1905." G. Forrest. No. 802.

"Plant of 6–12 inches. Flowers pale greenish-white. Amongst dwarf scrub and undergrowth in pine forests on the eastern flank of the Lichiang Range. Lat. 27° 10′ N. Alt. 9000–10,000 ft. July 1906." G. Forrest. No. 2519.

"Plant of 6–8 inches. Flowers greenish-white, veined green. Open, dry situations amongst pine scrub on the eastern flank of the Tali Range. Lat. 25° 40′ N. Alt. 9000–10,000 ft. July 1906." G. Forrest. No. 4176.

[Notes, R.B.G., Edin., No. XXXVI, March 1913.]

Resembles *P. picta*, Sm., in foliage, but shows few relations to it in other respects.

Pirola sororia, Andres. Sp. nov. Plate iv.

Caules ad 15 cm. alti. Squamae lanceolatae acutae. Folia fere orbicularia, nonnunquam subreniformia vel ovata, acuminata, circ. 2.5–3 cm. longa, 3–2.5 cm. lata, margine recurva, robusta, sicca luteo-viridia, nervi prominentes in dentes excurrentes; petiolus lamina dimidio brevior, alatus. Scapus erectus strictus, atrofuscus, squamis 1–3 late ovatis rotundatis praeditus. Racemus cylindricus, 8–11-florus; pedicelli horizontales; bracteae linguiformes, pedicello longiores. Flores nutantes, late campanulati. Sepala triangulari-ovata, acuminata, petalorum tertiam partem subaequantia. Petala late ovata suborbicularia basin versus angustata, 7–8 mm. longa 5–6 mm. lata, luteo-viridia venis obscuris notata. Staminum filamenta sursum curvata, antherae oblongae, cornutae, basi saepe mucronatae. Stylus exsertus, primo deorsum demum sursus curvatus; stigma amplum 5-crenatum. Capsula sepalis longior.

" Plant of 6–8 inches. Flowers greenish-yellow. In pine forests and cane brakes on the Mekong-Salwin divide west of Tsekou. Lat. 28° N. Alt. 11,000 ft. July 1904. S.E. Tibet." G. Forrest. No. 5065.

In appearance like our *P. media*, Sw., and *P. rotundifolia*, Linn., but distinguished by style, shape of sepals and petals, and the greenish-yellow colour of the petals.

Pirola Forrestiana, Andres. Sp. nov. Plate v.

A *P. rotundifolia*, Linn., notis compluribus diversa. Folia late ovata vel suborbicularia, crenata vel serrata. Bracteae oblongo-lanceolatae usque subovatae, rotundato-apiculatae, raro sensim acutatae, quam tertia vel dimidia pars petalorum sublongiores. Petala late ovata, 7–10 mm. longa, 5–7 mm. lata, luteolo-viridia extus rosea venis viridibus picta.

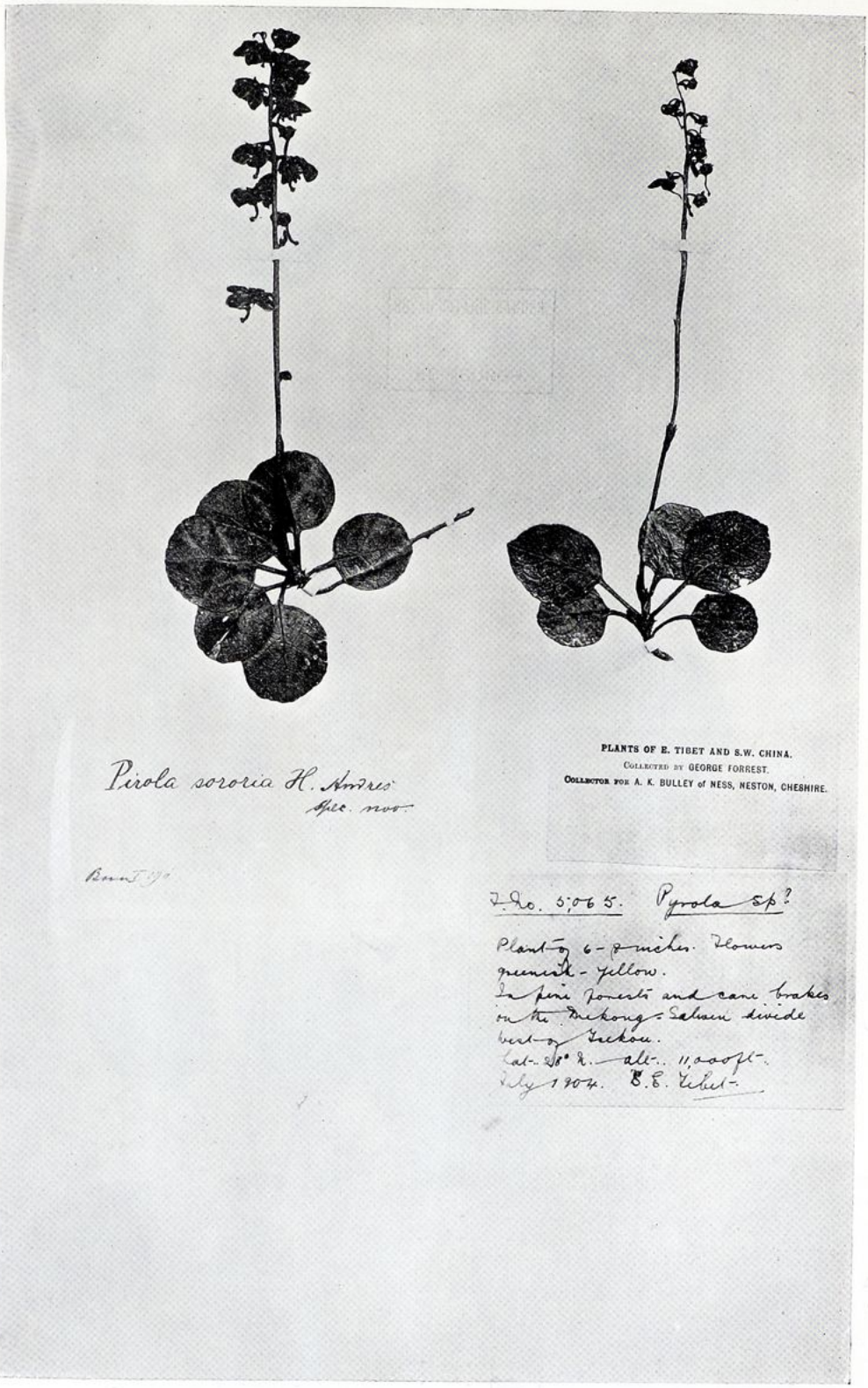
" Plant of 6–10 inches. Flowers greenish-white, tinged rose on exterior, veined green. Moist, shady, grassy situations in pine forests on the eastern flank of the Tali Range. Lat. 25° 40′ N. Alt. 10,000–11,000 ft. July–August 1906." G. Forrest. No. 4177.

Very closely allied to *P. rotundifolia*, Linn., but different in size and shape of the sepals and colour of the petals.

LIST OF PLATES

PLATE III. Pirola decorata, Andres. Sp. nov.
IV. Pirola sororia, Andres. Sp. nov.
V. Pirola Forrestiana, Andres. Sp. nov.

PIROLA DECORATA, H. ANDRES.



PIROLA SORORIA, H. ANDRES.

PIROLA FORRESTIANA, H. ANDRES.