

A NEW SPECIES OF *PIMPINELLA* FROM TIRUPATI HILLS, SOUTH INDIAN. P. BALAKRISHNAN AND K. SUBRAMANYAM¹

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ABSTRACT

Pimpinella tirupatiensis spec. nov. Bal. & Subr., collected from Tirupati Hills, Chittoor District, Andhra Pradesh, South India, is described.

Pimpinella tirupatiensis spec. nov. Bal. & Subr. Accedit ad *P. candolleanam* Wt. & Arn., a qua tamen differt absentia pubescentiae, foliis basalibus et caulinis inferioribus simplicibus, cordatisque, superioribus vero 3-partitis, supremis in segmenta linearia divis, bracteis nullis ad umbellas primarias.

Herba erecta, lignosa, 4.5-5.5 dm. alta, penitus glabra; *caulis* simplex infra, ramosus supra, teres, striatus; *rami* alterni, bifarii. *Folia* alterna, longe petiolata, nervis palmato-reticulatis, nervulis eminentibus, rubro-brunneis in pagina inferiore; *margin*es cartilaginose crenato-serrati; *folia* basalia et inferiora caulina simplicia, ovato-obtusa vel acuta, alte cordata, 1.7-3.8 × 1.3-3.5 cm., *petioli* 2.5-7.8 cm. longi, vaginantes ad basim; *folia* superiora caulina palmate tripartita, segmentis incis, et nonnumquam lobatis, oblanceolatis vel lineari-lanceolatis, acutis, ad basin angustatis, 1.02-2.5 cm. longis; *petioli* 1.0-3.5 cm. longi, vaginantes per totam longitudinem; *folia* suprema divisa in lobos minutissimos setaceos, vel saepe ad vaginas simpliciter reducta. *Flores* in umbellis compositis; *umbellae* primariae constantes e radiis tenuibus 3-6, singulis 1.2-2.4 cm. longis; *bract*ae nullae vel rarissime una lineari-subulata; *umbellae* secundariae 5-6-florae, *bracteolis* 1-2 minutissimis, lineari-subulatis, 1-2 mm. longis vel saepe nullis; *pedicelli* tenues, 2-4 mm. longi. *Petala* alba, ca. 1 mm. longa, obovata, suborbicularia, apicibus inflexis. *Stylus* parvus, tenuis, ca. 1 mm. longus; *stylopodium* conicum, luteo-brunneum, persistens. *Fructus* ca. 1.5 mm. longus, ovoideus, papillose-scaber.

Holotypus lectus in via ad Japalathirtha in collibus Tirupati dictis, Chittoor Dist., in regione Andhrice, ad altit. ca. 1000 m. die 11 octobris anni 1958 a K. Subramanyam et N.P. Balakrishnan sub numero collectionis 6889, et positus in Herbario Regionis Australis, Bot. Surv. Ind., ad Coimbatore sub numero accessionis 13487; isotypus 13488.

Erect, woody herb, 4.5-5.5 dm. tall, completely glabrous; stem simple below, branched above, terete, striate; branches alternate, bifariate, veins prominent, reddish-brown on lower surface; margins cartilaginously crenate-serrate; basal and lower cauline leaves simple, ovate-obtuse or acute, deeply cordate, 1.7-3.8 cm. long, 1.3-3.5 cm. wide; petiole 2.5-7.8 cm. long, sheathing at

base; upper cauline leaves palmately 3-partite, segments oblanceolate to linear-lanceolate, acute, narrowed towards base, cut and sometimes lobed, 1.0-2.5 cm. long; petiole 1.0-3.5 cm. long, sheathing throughout the length; uppermost leaves cut into very small setaceous lobes or often reduced to mere sheaths. Flowers in compound umbels; primary umbels with 3-6 slender rays, 1.2-2.4 cm. long, bracts 0 or very rarely 1, linear-subulate; partial umbels 5-16-flowered, bracteoles 1-2, very small, linear-subulate, 1-2 mm. long, or often 0; pedicels slender, 2-4 mm. long. Petals white, ±1 mm. long, glabrous, obovate, suborbicular, apex inflexed. Styles small, slender, ±1 mm. long; stylopod conical, yellowish-brown, persistent. Fruit ±1.5 mm. long, ovoid, papillose-scabrous (Figs. 1-9).

Holotype collected on the way to Japalathirtha in Tirupati Hills, Chittoor District, Andhra Pradesh at about 1000 meters, on the 11th October, 1958 by K. Subramanyam and N. P. Balakrishnan under field no. 6889 and deposited in Southern Circle Herbarium of Botanical Survey of India, Coimbatore under accession nos. 13487 (HOLOTYPUS) and 13488 (ISOTYPUS).

Pimpinella tirupatiensis
Bal. & Subr.

1. Plant glabrous.
2. Basal leaves always simple.
3. Upper cauline leaves palmately 3-partite.
4. Uppermost leaves sheathing, 3-partite with linear segments.
5. Bracts for primary umbels absent.

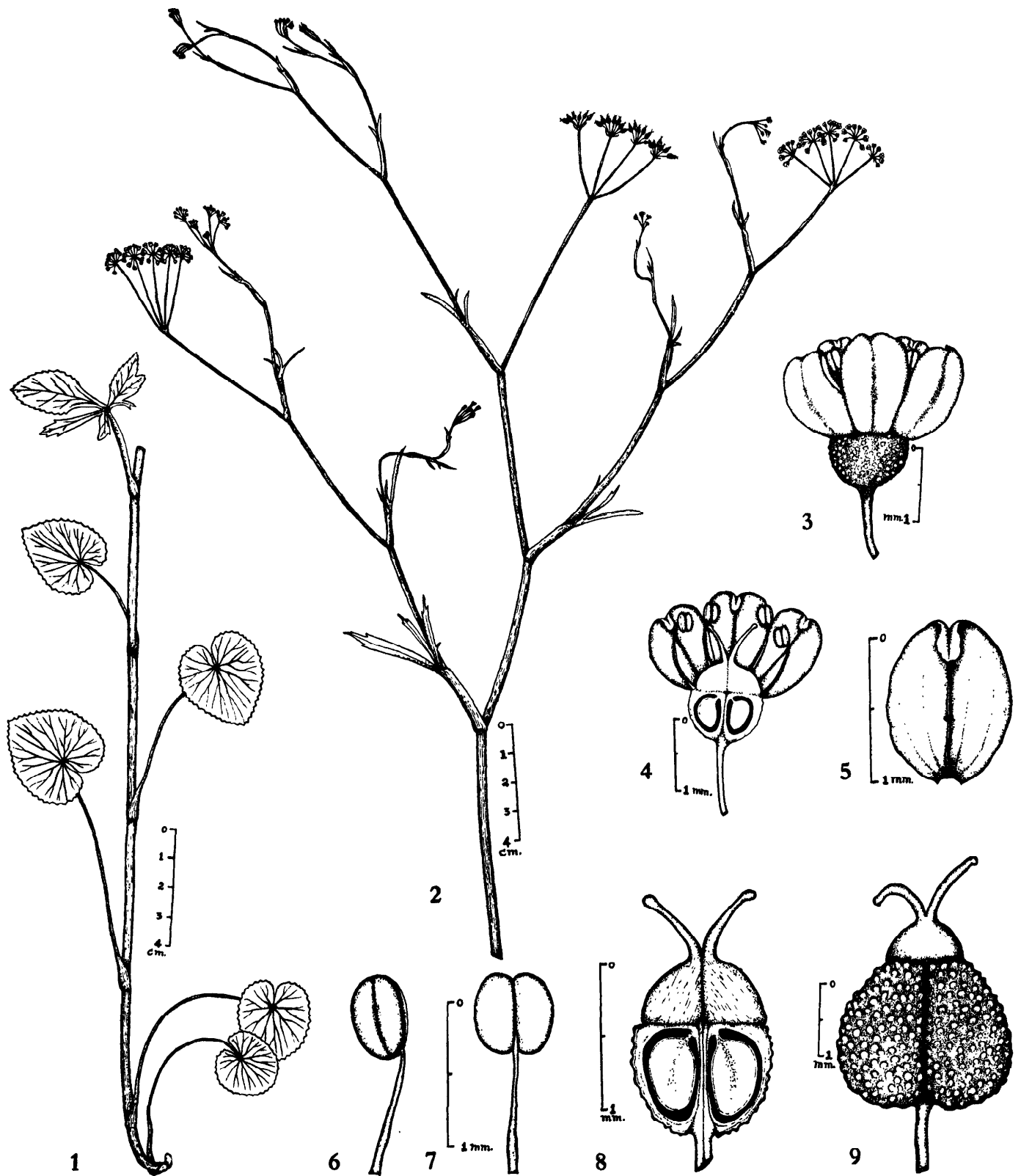
Pimpinella candolleana
Wt. & Arn.

1. Plant pubescent.
2. Basal leaves sometimes 3-partite
3. Upper cauline leaves deeply pinnatifid.
4. Uppermost cauline leaves reduced to a sheath with pinnatifid blade.
5. Bracts for primary umbels present.

ACKNOWLEDGEMENT

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Fig. 1 habit: basal portion; Fig. 2. habit: upper portion; Fig. 3. flower; Fig. 4. L.s. of flower; Fig. 5. petal showing inflexed apex; Figs. 6-7, two views of anther; Fig. 8. L.s. of ovary with stylopodium. Fig. 9. fruit.