

*Calystegia macrostegia* (Greene) Brummitt subsp. *intermedia* (Abrams) Brummitt, SOUTH COAST FALSE BINDWEED. Perennial vine, twining, from woody caudex, several-stemmed at base, with long, trailing flowering shoots; shoots with widely spaced leaves, glabrous or glabrescent with sparse, fine, short hairs becoming glabrate; latex milky. **Stems:** 2-ridged to cylindrical, with 2 ridges (sometimes weakly developed) descending from each leaf, tough, green aging purplish red along ridges and at nodes, with long internodes, eventually forming brownish periderm with tannish fissures. **Leaves:** helically alternate, with a pair of backward-pointing or spreading basal lobes, petiolate, without stipules; petiole channeled (short petiole) to flat at base to channeled approaching blade (long petiole), 65–90 mm long, ridged along channel, short-winged at expanded base, glabrous to sparsely hairy; blade arrow-shaped or with 2 spreading basal lobes (hastate), 38–90 × 24–73 mm, central portion triangular to narrowly triangular, 15–35 mm wide, ± entire, basal lobes each typically with a tooth or small sublobe on lower edge, palmately 3-veined with lateral veins soon 3-forked or 7-veined at base with principal veins raised on lower surface, sometimes sparsely ciliate with a hair on small swollen tooth. **Inflorescence:** flowers solitary, axillary, on long peduncle, bracteate, glabrous to glabrescent; peduncle (pedicel) 4–5-ridged, 90–215 mm long increasing in fruit, terminated by 2 bractlets partially concealing calyx, with 2 ridges descending from each bractlet, having pith ± hollow (aerenchymalike); bractlets opposite to subopposite, in bud < 1 mm below flower but with internodes increasing 2× after anthesis, erect, triangular-lanceolate, 17–19 × 6.5–7.5 mm, green and aging purplish red at tip, on margins, and along veins, keeled, subcordate and clasping or rounded at base, entire or slightly dentate and ciliate on narrowly membranous margins, sometimes inrolled on 1 or 2 margins, acute to acuminate or narrowly pointed (cuspidate) at tip, 10–12-veined from base, glabrous or finely strigose on lower (outer) face approaching tip; pedicel < 1 mm long increasing to 2 mm after anthesis. **Flower:** bisexual, radial, 28–45 mm across; **sepals** 5, erect, overlapping, unequal, lanceolate to narrowly ovate, 10–16 × 2.6–4.3 mm, decreasing in width from outer to inner sepals, light green with paler margins, rounded to truncate at base, entire, narrowly membranous and ciliate on exposed margins, acute to acuminate or cuspidate at tip, glabrous or on exposed surface sparsely hairy with fine ascending hairs; **corolla** 5-lobed, pleated and twisted in bud, funnel-shaped, 25–40 mm long, thin and easily wilted, 10-angled (creases from pleats in bud = 5 inward angles + 5 outward angles), whitish to creamy white but with 5 pale to light green stripes on outer surface exposed in bud, the stripes 2.3–2.8 mm wide tapered from base to top and connected at base, lobes broad and short, commonly terminated with a small, greenish tooth, margin irregularly short-dentate to slightly jagged, a tooth often with several wavy hairs to pubescent and corolla margins adjacent to teeth ciliate with wavy hairs; **stamens** 5, fused to corolla at base for 2.5–3.5 mm; filaments tapered to ± cylindrical tip, 12.5–14.5 mm long (including fused base), 1–1.3 mm wide at base, papillate or having club-shaped hairs from base upward 5–7 mm; anthers included, basifixed, dithecal, oblong to linear or elliptic, 3.8–4.6 × 1–1.8 mm, whitish, arrow-shaped at base, with round-tipped sacs, longitudinally and laterally dehiscent; pollen whitish; **nectary disc** at base of ovary, cuplike, 0.8–1.5 mm tall, 2–2.2 mm across, yellow-orange (darker at base to lighter above), 5-angled in ×-section, scalloped or 5–10-toothed or jagged on rim; **pistil** 1, 14.5–18.5 mm long; ovary superior, ovoid, 2–2.5 × 1.5–1.8 mm, hairy with ascending and ± appressed fine hairs, 1-chambered (sometimes having

slightly intruded septum) with 4 ovules attached at base, densely silky hairy within chamber; style 8.7–12.5 mm long, densely strigose at base to sparser above and glabrous at least from midpoint; stigmas 2, narrowly oblong, 3.3–3.5 × 0.8–0.9 mm, whitish to pale yellow, hemi-cylindric, densely and minutely papillate-stigmatic on flat and rounded faces.

**Fruit:** capsule, loculicidal, surrounded by persistent, slightly spreading sepals and sometimes bractlets, dehiscent from tip downward by (several–)10–12 unequal valves, 2–4-seeded, spheroid, 6.4–7 mm, tannish with paler veins, long-hairy on inner valve.

**Seed:** 1/4–1/2 spheric-wedges, 3.5–5.9 × 3–4.7 mm, very dark dull brown, minutely warty.

Late May–early July.

Native. Perennial vine becoming dormant during late summer, found in range mostly in scrubland on the coast side of SMM, e.g., Latigo Canyon. *Calystegia macrostegia* subsp. *intermedia* differs from subsp. *cyclostegia*, the common form, in having longer peduncles, bractlets, filaments, and pistil, and the two subspecies are not easy to tell apart relying on characters often used in keys.

B. A. Prigge & A. C. Gibson