

REFERENCE MATERIAL

Updates [24 July 2020]

CAMPANULACEAE:

■Morin, N.R. 2020. Taxonomic changes in North American Campanuloideae (Campanulaceae). *Phytoneuron* 2020-49: 1-46.
Campanula uniflora Linnaeus = *Melanocalyx uniflora* (Linnaeus) Morin

PHRYMACEAE:

■Nesom, G. 2020. *Erythranthe plotocalyx*, (Phrymaceae), and new species from Arizona and New Mexico. *Phytoneuron* 2020-40: 1-9.

Erythranthe

1 Plants erect to ascending-erect; cauline leaves basally attenuate to sessile or subsessile, epetiolate, blades oblanceolate to elliptic or elliptic-lanceolate, primarily palmately 3-5-nerved, sometimes with an additional 1-2 smaller lateral pairs; fruiting pedicels 20-45 mm; corolla tube-throats 5-6 mm; fruiting calyces 5-8 mm long *E. plotocalyx*

1 Plants laxly erect to decumbent, sprawling, or procumbent; cauline leaves abruptly and distinctly petiolate, blades generally ovate with a rounded to truncate or cordate base; mostly pinnately to subpalmately veined; fruiting pedicels 5-15(-26) mm; corolla tube-throats (4-)5-10 mm, fruiting calyces 4-7 mm long *E. floribunda*

Erythranthe plotocalyx Nesom [swimming or buoyant calyx] ["Arizona/New Mexico variant" in FNM III (2020)]. Annual herbs, fibrous-rooted, the herbage villous-glandular with gland-tipped hairs, the stems erect to ascending-erect, (3)6-30 cm tall/long; leaves mostly cauline by flowering, oblanceolate to elliptic or elliptic-lanceolate, 1-3 cm long, primarily palmately 3-5-palmately nerved, the margins entire to shallowly serrate or dentate with 1-3 pairs of teeth; fruiting pedicels 20-45 mm long; fruiting calyces distinctly inflated, 5-8 mm long, greenish or purplish, not red-dotted, villous-glandular, the lobes subequal; corollas yellow with the floor of the tube red-dotted, exerted 2-4 mm beyond the calyx, the tube/throat 5-6 mm long, weakly bilabiate or essentially radial; anthers glabrous; capsules 4-7 mm long. ●Cienegas, wet meadows, drainages, wet soil of marshes, ponds, and creek edges; as yet known only from Hidalgo County. ◆In FNM III (2020) this was referred to as the "Arizona/New Mexico variant" of *Erythranthe floribunda*.

RANUNCULACEAE:

■Wefferling, K.M. & S.B. Hoot. 2017. Species circumscription of the *Caltha leptosepala* polyploid complex (Ranunculaceae) based on molecular and morphological data [*Caltha chionophila*]. *Phytotaxa* 316(3): 201-223.

Caltha

1 Filaments broader and generally shorter than the carpels; Santa Fe Ski Basin..... *C. chionophylla*

1 Filaments no broader than the anthers (broadly filiform to about as wide as the anthers) and generally long than the carpels; widespread in northern mountains..... *C. leptosepala*

Caltha chionophila Greene [snow-loving]. Stems erect, with 0-1 cauline leaves; basal leaves ovate, broadly oblong, to obovate, 1.2-3 times longer than wide, the margins mostly sinuate-dentate to subentire; inflorescences 1-3-flowered; flowers 3-4.5 cm diam; sepals white to yellow, bluish abaxially and in bud, 1-2 cm long; filaments strongly flattened, 0.5-1.2 mm wide, wider and generally shorter than the anthers; follicles 1-2 cm long, the beak 0.5-1.2 mm; 2n=6x. ●Subalpine to alpine seeps and boggy ground; Santa Fe Ski Basin.

Caltha leptosepala A.P. de Candolle [with slender sepals] [*Caltha leptosepala* A.P. de Candolle var. *rotundifolia* Huth, *Caltha rotundifolia* (Huth) Greene, *Psychropila leptosepala* (A.P. de Candolle) W.A. Weber]. Stems erect, with 0-1 cauline leaves; basal leaf blades ovate to broadly reniform or orbiculate, 2-15 cm long, 1-1.7 times longer than wide, the margins entire, crenate, or dentate; inflorescences 1-4-flowered; flowers 15-40 cm diam; sepals white to yellow, bluish abaxially and in bud, 1-2 cm long; filaments broadly filiform to flattened, 0.2-0.9 mm wide, slightly narrower to as wide as the anthers and longer than the carpels; follicles 1-2 cm long, the beak about 0.1 mm long; 2n=9x, 12x. ●Wet seeps and boggy ground in the high northern mountains. §

Updates [17 August 2020]

1. for *Phemeranthus brevifolius*: "Plants to 60 mm tall..."
2. for *Frasera speciosa*: "Plants long-lived perennials, ..."