Element Code: PDSCR1B2U0

Changed name of *Mimulus whipplei* to *Erythranthe marmorata*, and changed status from California Rare Plant Rank 1A to 1B.1 in the CNPS Inventory on August 29, 2016

Rare Plant Status Review: Mimulus whipplei

Proposed name change to *Erythranthe marmorata*,
Proposed rank change from California Rare Plant Rank 1A, GXQ / SX to 1B.1, G1 / S1
Aaron E. Sims (CNPS) and Roxanne Bittman (CNDDB)
July 18, 2016

Background

Mimulus whipplei Grant is an annual herb in the Phrymaceae that has been presumed extinct and included in the CNPS Inventory since the first edition (Powell 1974). It was recently circumscribed to *Erythranthe marmorata* (Greene) G.L. Nesom by Barker et al. (2012), and based on a recent collection of *E. marmorata* (Nesom 2013), is no longer considered extinct. *Mimulus whipplei* is still only known from the type collection, and "[w]ithin *Erythranthe*, the lack of mature calyces on the type has prevented an unequivocal decision even regarding its position in the genus" (Nesom 2012). The type of *M. whipplei* was collected from only about 15 miles northeast of the type locality of *M. marmoratus*; the two are similar in general aspect, both having long-tubed corollas with flaring limbs, and both being villous-glandular, taprooted annuals (Nesom 2012).

Mimulus whipplei was known to flower in May at an approximate elevation of 670 meters. Based on collection records, *E. marmorata* flowers from March to May and grows at an approximate elevation of 100–900 meters. Species most similar to *E. marmorata* are *E. microphylla*, *E. pardalis*, and *E. nasuta* (see Nesom 2012 to compare features of *E. marmorata* with these three species).

Previously only known from a single 1894 collection from "[h]illsides and rocky places, Murphy's", Calaveras County, California (*Bigelow s.n.*), the revised circumscription of *M.* whipplei to E. marmorata expands its total occurrences to approximately ten, extending its distribution to Amador (Eastwood 10070, Hansen s.n., Hansen 473), Fresno (York 1808), Stanislaus (Bancroft s.n.), and Tuolumne (Abrams 16069, Ferris 1626, Grant 18) counties, along with three additional collections from Calaveras County (Hansen 473 [Amador and Calaveras counties], Blaisdell s.n., Howell 52758). Of these, the collection from Fresno County along with an additional collection from Calaveras County (Howell 52758) are significant in that they were made in 1997 and 1978, respectively, while all other collections are not more recent than 1923. "The record for Fresno County appears to be somewhat disjunct from the main range and the plants are more densely villous than characteristic elsewhere, but their identification as *E. marmorata* otherwise seems secure" (Nesom 2013). Eight occurrences of E. marmorata are from 1894 to 1923 and are considered extirpated until/if they are rediscovered. Two occurrences are from federal lands (Sierra National Forest and Stanislaus National Forest), and the remaining are from an unknown land ownership.

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Due to Dana York's recent collection in 1997 and the collection by Howell in 1978. Erythranthe marmorata should be considered extant, and additional surveys need to be conducted both to attempt to update the known records as well as to search for new occurrences (see the attached "Locations ErythrantheMarmorata" spreadsheet for occurrence details).

Based on the available information, CNPS and CNDDB recommend changing the name of *Mimulus whipplei* to *Erythranthe marmorata*, and re-ranking it from California Rare Plant Rank 1A to 1B.1. If knowledge on the distribution, threats, and rarity status of *E.* marmorata changes in the future, we will re-evaluate its status at that time.

Recommended Actions

Mimulus whipplei Grant

CNPS: Change name of *Mimulus whipplei* to *Erythranthe marmorata*; Change from California Rare Plant Rank 1A to 1B.1 CNDDB: Change name of *Mimulus whipplei* to *Erythranthe marmorata*; Change from GXQ / SX to G1 / S1

Current CNPS Inventory Record

Whipple's monkeyflower Phrymaceae CRPR 1A Calaveras* Murphys (475B)* 3812024 Lower montane coniferous forest; elevation unknown. Annual herb. Blooms May

Known only from the type collection (in 1854). Many recent searches have not rediscovered this plant. See M. guttatus in The Jepson Manual. See Annals of the Missouri Botanical Garden 11(2-3):184 (1924) for original description.

Available online at: http://www.rareplants.cnps.org/detail/1101.html

Revised CNPS Inventory Record

Erythranthe marmorata (Greene) G.L. Nesom Stanislaus monkeyflower Phrymaceae Synonym: Mimulus whipplei

CRPR 1B.1

Amador*, Calaveras, Fresno, Tuolumne*, Stanislaus*

Keystone (459D)* 3712075, Murphys (475B)* 3812024, Columbia (475C)* 3812014, Columbia SE (475D)* 3812013, Patterson Mtn. (488A) 3611981, Mokelumne Hill (493C)* 3812036, Rail Road Flat (493D)* 3812035, Ione (494C)* 3812038 Cismontane woodland, lower montane coniferous forest; elevation 100–900 meters.

Annual herb. Blooms March to May

Previously CRPR 1A (as Mimulus whipplei); now known from at least two extant occurrences. Similar to E. microphylla, E. pardalis, and E. nasuta. See Erythea 3(5):73

Element Code: PDSCR1B2U0

(1895) for original description, *Phytoneuron* 2012-39:1-60 (2012) for revised nomenclature, and *Phytoneuron* 40:1-123 (2012) for taxonomic treatment.

Literature Cited

Barker, W.R., G.L. Nesom, P.M. Beardsley, and N.S. Fraga. 2012. A taxonomic conspectus of Phrymaceae: a narrowed circumscription for *Mimulus*, new and resurrected genera, and new names and combinations. Phytoneuron 2012-39: 1-60.

Greene, E.L. 1895. Novitates occidentales—XIII. Erythrea 3(5): 73.

Nesom, G.L. 2013. New distribution records for *Erythranthe* (Phrymaceae). Phytoneuron 2013-67: 1-15.

____. 2012. Taxonomy of *Erythranthe* sect. *Simiola* (Phrymaceae) in the USA and Mexico. Phytoneuron 40: 1-123.

Powell, W.R. (ed.). 1974. Inventory of Rare and Endangered Plants of California. Special Publication No. 1. California Native Plant Society, Berkeley. 56 pp.