

* **HOLOCALYX**, i. e. calyx fructifer non circumscissus, basi ipsa vel pedicello brevissimo intermediente rhachi pl. m. articulatus, haud raro cum fructu incluso secedens.

+ *Costatæ, Cismontanæ*: sepala nunquam angustissima, costa valida rigida, fructifera in prioribus insigniter incrassata percursa: nuculae sæpissime opacæ, areola intrabasali (*K. Texana* excepta) manifesta: herbæ diffuso-ramosæ, hispidæ, sæpius asperæ.

+ *Hetero- vel Monocaryæ*: calyx fructifer inferne arcte clausus, costis insigniter cartilagineo-incrassatis.

K. CRASSISEPALA. *Eritrichium crassisepalum*, Torr. & Gray, Pacif. R. Rep. ii. 171. — Spicæ inter flores bracteatae. Calyx fructifer in pedicello brevissimo etiam indurato diu persistens. Nuculae ovatae, acutæ, vix ultra medium gynobasi angusto-pyramidatæ adfixæ, tres dorso papilloso-muriculatæ et areola oblongo-lanceolata excavata insertæ; una major, lævis, diu persistens. — This species extends from the Saskatchewan to New Mexico.

K. TEXANA. *Eritrichium Texanum*, A. DC. Prodr. x. 130. — Elatior, spicis demum laxis plerumque ebracteatis. Calyx fructifer angustus costis angustioribus, subsessilia, maturitate fructu incluso secedens. Nucula solitaria (3 abortientibus), sat magna, parum meniscoidea, creberrime minutimque puncticulata, cæterum lævis, ventre a basi fere ad medium carina tenui gynobasi adfixa, diu persistens, delapsa basi lacera.

+ + *Homocaryæ*: nuculae 4 fertiles conformes, gynobasi angustiori adfixæ, læves, ovato-acuminatæ, vix lineam longæ, sulco ventrali ima basi in areolam paullo excavatam subtriangularem repente dilatato: calyx fructifer (lin. 2 longus) minus clausus, setis pungentibus hispidus, costis prominentibus sed minus crassis: spicæ basi tantum bracteatae vel ebracteatae.

K. PATTERSONI. Humilis, a basi diffusa; foliis angusto-spathulatis seu linearibus; sepalis lineari-lanceolatis costa demum prominente: nuculis a basi ad medium (vel paullo ultra) gynobasi subulato-pyramidatæ adfixis, una quandoque magis persistente. — At the base of the Rocky Mountains in Colorado; coll. *H. N. Patterson*, 1875, *J. D. Hooker* and *A. Gray*, 1877. A species till now overlooked, connecting the following with the preceding group.

K. FENDLERI. Erectus, subpedalis, paniculato-ramosus, rigidulus; foliis linearibus; sepalis fructiferis angusto-linearibus; nuculis sursum magis attenuatis fere ad apicem usque gynobasi angusto-subulatæ adfixis. — Along the eastern base of the Rocky Mountains, from the

Saskatchewan district (Hand Hills, *Macoun*) to Colorado, Northern New Mexico, and apparently in Arizona; coll. *Fendler, Hall, Parry, Vasey, Porter, Rusby, &c.* It has been unwarrantably confounded with *K. leiocarpa, &c.*

← + *Typicæ, Transmontanæ, Leiocaryæ*: nuculæ lævissimæ, nitidæ, acutæ vel acumiuatæ, pericarpio sat tenui, sulco ventrali tenui percursæ, basi haud vel minime areolatæ, gynobasi angustæ adfixæ: sepala angusta, costa nunc prominula nec incrassata instructa: herbæ diffusæ vel erectæ, graciles, calycibus setoso-hispidis.

↔ *Eremocaryæ*: nucula solitaria (rarissime 2, cæteris abortientibus), angusta, acuminata, inferne triente parte tantum gynobasi brevi angustæ adfixa, itaque sursum longius libera (*Amblynoti* modo), areola intrabasali vix ulla: herbæ graciles, erectæ; spicis sæpius conjugatis ternisve ebracteatis, calycibus fructiferis arcte sessilibus rhachi plerumque adpressis.

K. OXYCARYA. *K. leiocarpa*, Benth. Pl. Hartw. 326, non Fisch. & Meyer. *Eritrichium oxycaryum*, Gray, Proc. Am. Acad. x. 58, & Syn. Fl. ii. 193. *Myosotis flaccida*, Dougl. in Lehm. Pugill. ii. 22, & Hook. Fl. ii. 82; Hook. & Arn. Bot. Beech. 369. Pube brevi strigulosa arcte adpressa subcinerea; caule sæpius stricto ultrapedali; foliis linearibus vel lineari-spathulatis; calyce fructifero (circa lin. 2 longo) segmentis lineari-filiformibus crassiusculis, versus basim setis crebris *deflexis* (validis hæud pungentibus, apice attenuato debili nunc incurvo) hispidissimis, superne nudiusculis vel setis brevioribus instructis; nucula majuscula subtereti ex ovata longius acuminata quasi rostellata. — Not rare from S. California to Washington Territory. When we did not possess specimens north of California, I referred the original *Myosotis flaccida*, described by Lehmann, to *K. leiocarpa*, partly because of the “nucis 4” in the description. But I now learn that original specimens from “barren grounds in the interior of the Columbia” have solitary nutlets, and are of this well-marked species.

K. MICROSTACHYS, Greene in herb. Setis breviusculis patentibus pl. m. hirsuto-hispida; caule ramoso semipedali ad bipedalem; foliis lat angusto- aut lato-linearibus; calyce fructifero lineam ad sesquilineam longo setis subpungentibus longis patentissimis (nec *deflexis*) hispido vel hispidissimo, segmentis minus attenuatis; nucula ovato-lanceolata sensim acuminata ventre parum complanata sulco manifesto ima basi subfurcato percursa. — California, near Tejon, *Xantus*, no. 84, 86 (*K. leiocarpa, & Eritrichium?* spec., Gray, Jour. Bost. Nat. Hist. Soc. vii. 147); Los Angeles, *Nevin*; San Diego, *Pringle* (the