

GLORIA Great Basin

*LAN Photo Guide for 2021 Remeasurements at
Confluence Knob, Iridescent Ridge, Langley South
Shoulder, & Langley West Shoulder*



CFK is at treeline, 3411 m, with four pine species and 59 herbaceous and shrub taxa



IDR is at 3710 m in granitic Miter Basin. With 76 plant taxa it is among the most species rich peak in the GLORIA Great Basin network



LSS, at 3945 m, is classic alpine scree and rock with 29 herbaceous taxa



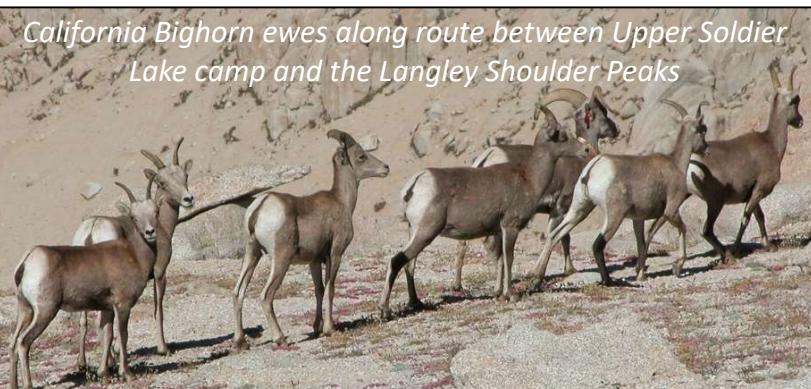
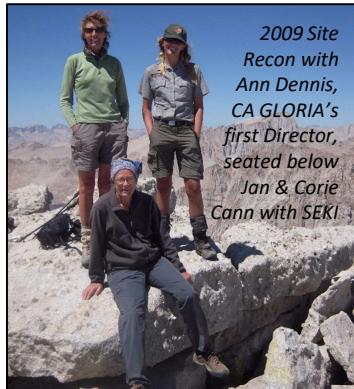
LWS, at 4185 m, has a commanding view of the Sierra, but at this elevation only 12 herbaceous taxa occur (Mt. Whitney is in shadow on horizon at back right)



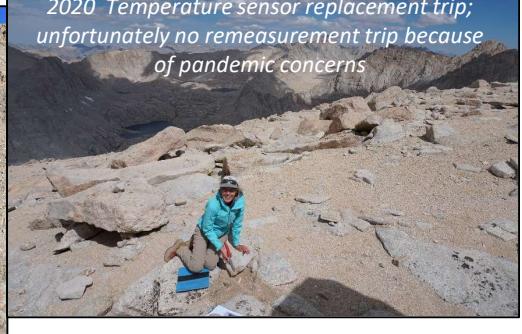
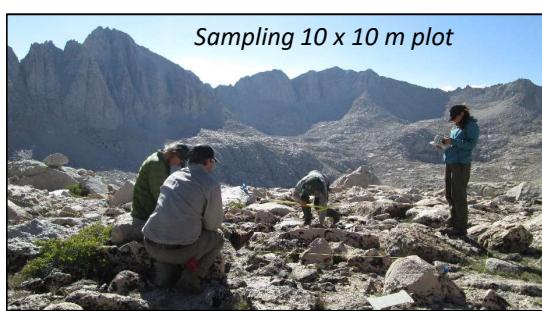
Upper Soldier Lake camp area with *Pinus balfouriana* subsp. *austriana*; lunch break; and Miter Basin night sky



LANGLEY Target Region History



2010 Gloriateers at New Army Pass



Plant Taxa Photo Guide for LANGLEY 2021

Organized by plant family

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Eudicots Apiaceae

Oreonana clementis



Asteraceae



Achillea millefolium



Agoseris x elata



Antennaria media



Antennaria rosea
subsp. *confinis*



Ericameria discoidea



Erigeron algidus



Erigeron clokeyi
var. *pinzliae*



Erigeron compositus

Eudicots

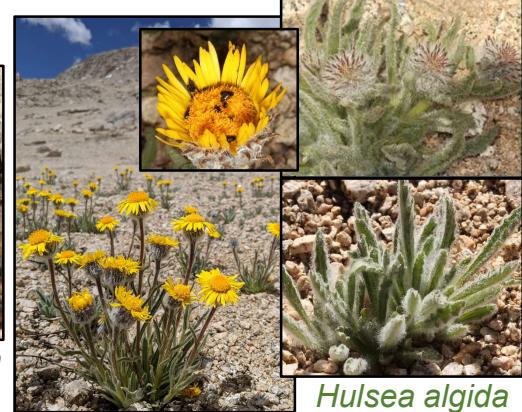
Asteraceae



Erigeron pygmaeus



Hieracium horridum



Hulsea algida



Packera wernerifolia



Pyrrocoma apargioides



Raillardella argentea



Solidago multiradiata



Senecio fremontii var. *occidentalis*



Boraginaceae



Cryptantha nubigena



Hackelia sharsmithii



Phacelia hastata
var. *compacta*

Brassicaceae



Anelsonia eurycarpa



Boechera depauperata

Eudicots

Brassicaceae



Boechera howellii



Boechera lemmonii



Boechera lyallii



Boechera indet. at IDR



Boechera indet.
at LSS



Draba
breweri



Draba longisquamosa



Draba cf. *monoensis*



Erysimum perenne



Caryophyllaceae



Minuartia nuttallii
var. *gracilis*



Minuartia rubella



Silene sargentii

Crassulaceae



Rhodiola integrifolia subsp. *i.*



Sedum *stenopetalum*

Ericaceae



Phyllodoce *breweri*



Fabaceae



Lupinus *breviperianus* var. *bryoides*



Lupinus *lepidus* var. *lobbii*

Eudicots
Grossulariaceae



Ribes cereum var. c.



Ribes montigenum

Hydrangeaceae **Lamiaceae**



Jamesia americana var. *rosea*



Monardella odoratissima
subsp. *pallida*



Montiaceae



Calyptodium umbellatum



Lewisia glandulosa



Epilobium obcordatum

Onagraceae

Orobanchaceae



Castilleja applegatei
subsp. *pallida*



Castilleja nana



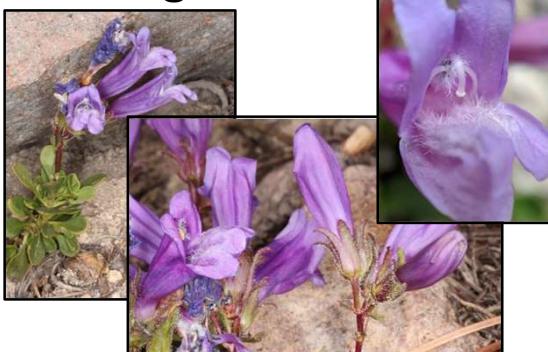
Pedicularis semibarbata



Diplacus leptaleus

Phrymaceae

Plantaginaceae



Penstemon davidsonii var. *d.*



Penstemon heterodoxus var. *h.*



Penstemon newberryi var. *n.*



Polemoniaceae



Linanthus pungens



Phlox dispersa



Polemonium eximium
Albino flowers &
Pika hay piles seen at LSS

Eudicots

Polygonaceae



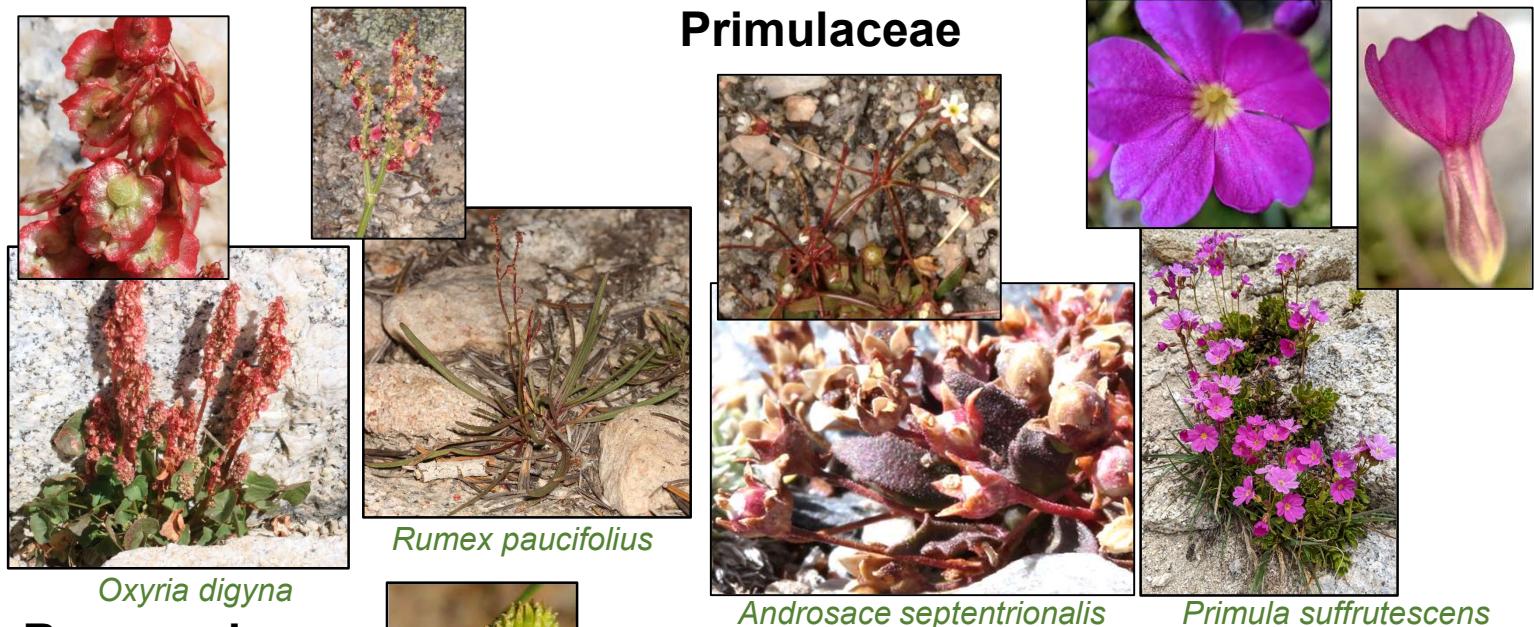
Eriogonum incanum

*Eriogonum nudum
var. scapigerum*

*Eriogonum ovalifolium
var. nivale*

Eriogonum polypodium

Primulaceae



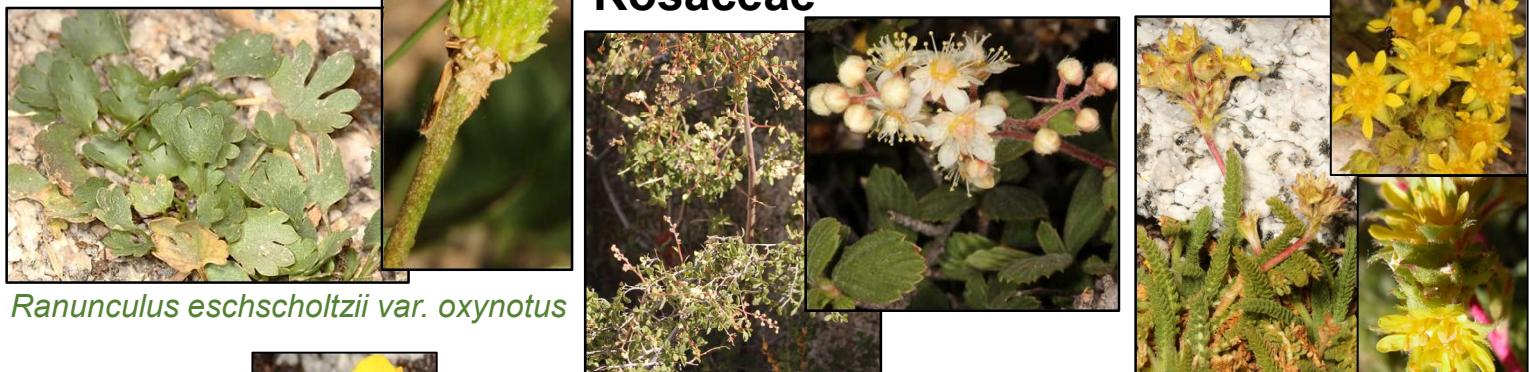
Oxyria digyna

Rumex paucifolius

Androsace septentrionalis

Primula suffrutescens

Ranunculaceae



Ranunculus eschscholtzii var. oxynotus

Holodiscus discolor var. microphyllus

Ivesia pygmaea



Potentilla bruceae



Potentilla pseudosericea



Sibbaldia procumbens

Saxifragaceae



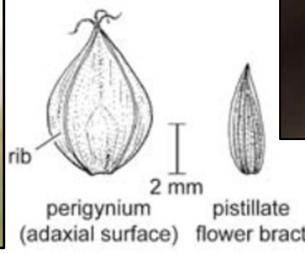
Heuchera rubescens

Monocots

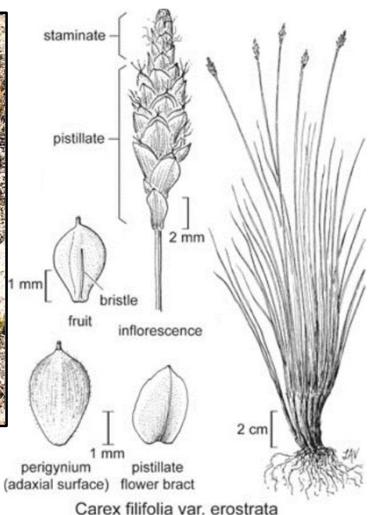
Cyperaceae



Carex breweri



Carex breweri



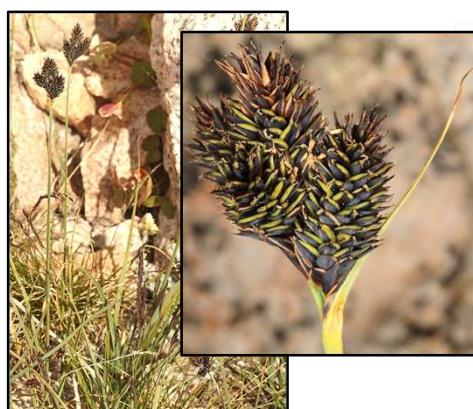
Carex filifolia var. *erostrata*



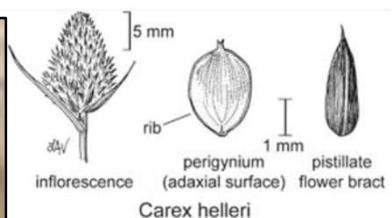
Carex haydeniana



perigynium (abaxial surface) pistillate flower bract
1 mm



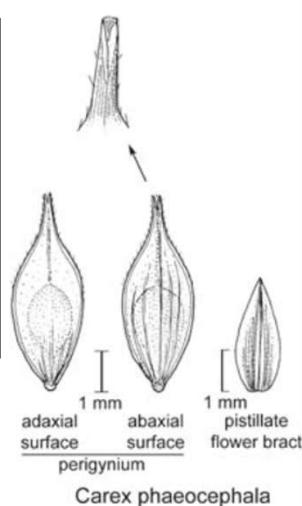
Carex helleri



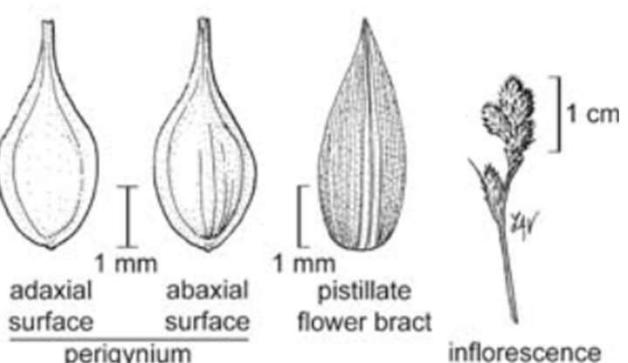
Carex helleri



Carex phaeocephala



Carex phaeocephala

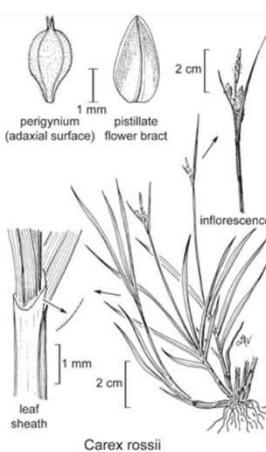


Carex preslpii

Carex preslpii – image needed



Carex rossii



Carex sp. indet.

Infl. w/ 1 dark spikelet at CFK

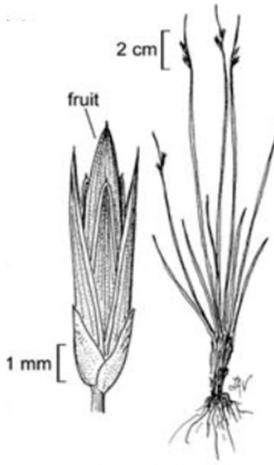
Monocot illustrations obtained online from Jepson eFlora, Flora of North America, and E-Flora British Columbia

Monocots

Juncaceae



Juncus parryi



Juncus parryi



Luzula spicata

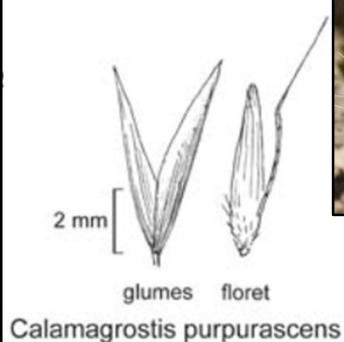


Luzula spicata

Poaceae



Calamagrostis purpurascens



Calamagrostis purpurascens



Elymus elymoides



Elymus elymoides



Festuca brachyphylla
subsp. *brevicalmis*



Festuca brachyphylla subsp. *brevicalmis*



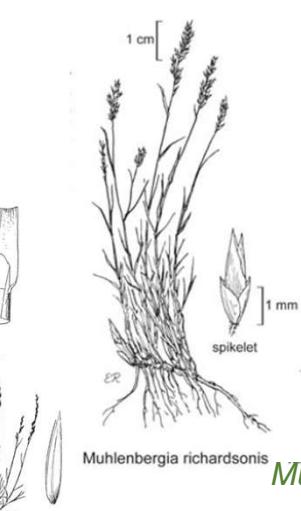
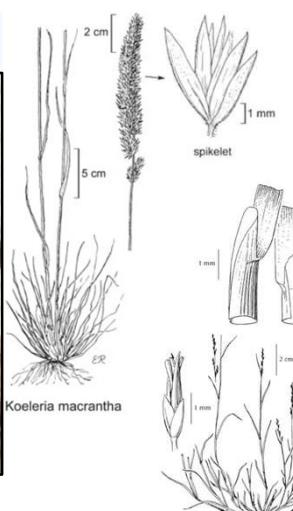
F. saximontana
var. *saximontana*



Festuca saximontana

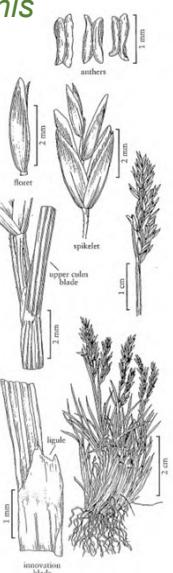
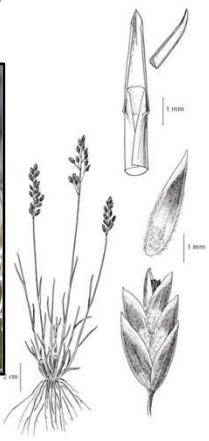
Monocots

Poaceae

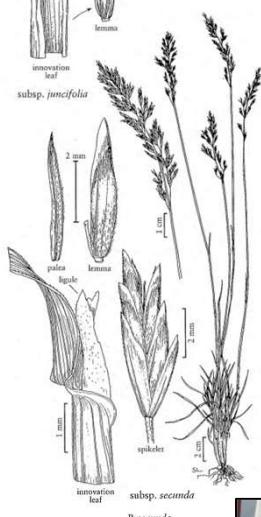


Muhlenbergia richardsonis

Koeleria macrantha



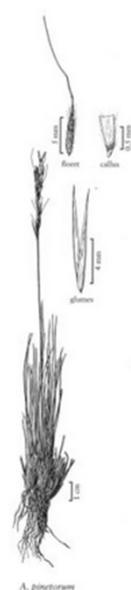
Poa keckii



Poa secunda subsp. s.



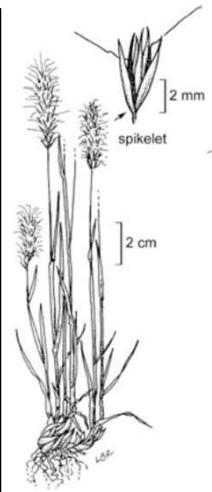
Stipa occidentalis var. o.



Stipa pinetorum



Trisetum spicatum



Trisetum spicatum

Gymnosperms

Pinaceae



Pinus albicaulis



Pinus jeffreyi

Pinus contorta subsp. *murrayana*

Woodsiaceae



Cystopteris fragilis

Ferns & Lycophyte Pteridaceae



Cryptogramma acrostichoides

Selaginellaceae



Selaginella watsonii with bryophytes



Soil lichen at IDR