Viola Renifolia var. Brainerdii vs. Viola Epipsila subsp. repens



Billy Connor BIOL 331 Spring 2009

http://botu07.bio.uu.nl/spgm-1.4.4/gal/1_Others/thb viola.renifolia 6768.jpg





http://wagner.fanweb.ca/viola.jpg

VIOLACEAE

Leaves

- Simple, cordate shape
- Alternate or basal

Flowers

- Perfect, zygomorphic
- 5-merous (sepals, petals, stamens)
- Nectar spur
- Early seasonal showiness
- Cleistogamous flowers later in season

Fruit

- Superior ovary of 3 fused carpels
- Fruit is 3-valved boat with many seeds



http://www.bartleby.com/images/A4images/A4cordat.jpg



http://botany.cs.tamu.edu/FLORA/dcs420/mi15/mi15060.jpg



http://www.kew.org/science/tropamerica/neotropikey/families/images/Violaceae/rinorea_pubiflora_1.jpg

- SIMPLE AND CORDATE
- BASAL LEAVES
- •FLOWERS ON SOLITARY PEDICELS
- 5-MEROUS



- PERFECT, ZYGOMORPHIC FLOWER
- NECTAR SPUR





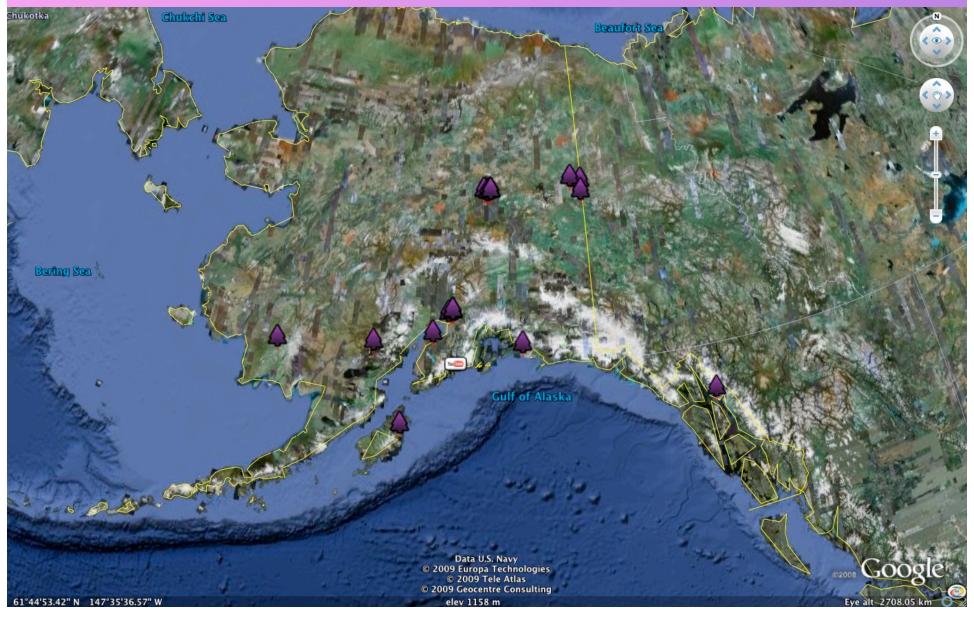
VIOLA

- 1 Flowers yellow
- 1` Flowers white, lilac, violet, purple, or blue
 - → Leaves pubescent above . . . V. Selkirkii
 - → Leaves glabrous
 - FLOWERS LARGER, LILAC, WITH DARKER STRIPES; STOLONS PRESENT . . . V. epipsila
 - FLOWERS WHITE W/ PURPLE STRIPES;
 LACKING STOLONS . . . V. renifolia

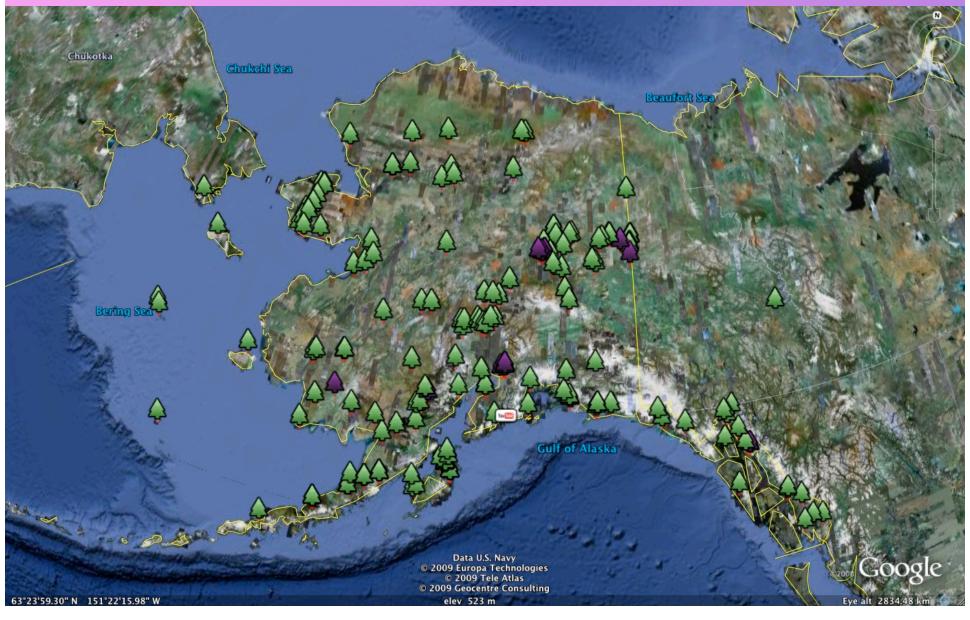




DISTRIBUTION



DISTRIBUTION



FLOWER SIZE COMPARISON

V. epipsila





V. renifolia





MORPHOLOGICAL COMPARISON

V. epipsila





V. renifolia

IMPORTANT DIFFERENCE

V. epipsila

- Creeping rootstock
- Leafy stolons present





V. Renifolia

- Ascending rootstock
- Lacking stolons

MISIDENTIFICATION

ALA V85902



ALA V103757



ALA V120257



ONE OF THESE THINGS IS NOT LIKE THE OTHER

MISIDENTIFICATION

ALA V85902



ALA V103757



ALA V120257



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PERSONAL SUGGESTION





FLOWER SIZE RELATIVE TO LEAF SIZE

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