

Onagraceae



Systematic Botany
Sarah Barcalow

Family Characteristics

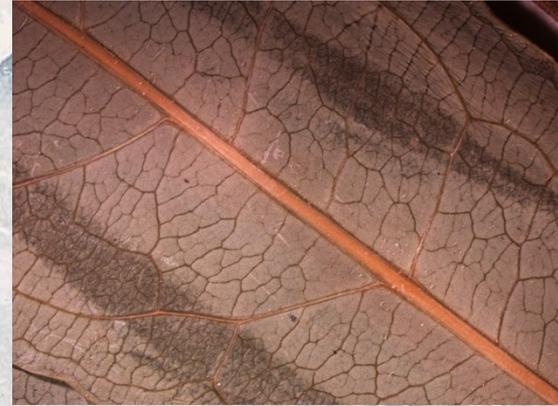
- *Evening Primrose Family- diverse family with 17 genera and 675 species*
- *2 genus in Alaska: *Epilobium* and *Circaea**
- *Leaves are simple*
- *Flowers are perfect and typically 4-merous in Alaska*
- *Stamens are 4 or 8*
- *Fruit is a dehiscent capsule*
- *Epilobium is difficult to key to species*

Key

- ❖ 4-merous flowers, 8 Stamens, Simple leaves that are opposite or alternate... *Epilobium*
 - Leaves always alternate (may be listed under genus *Chamaenerion*)
 - Stem tall, up to 1m high, with glabrous or very slightly pubescent leaves, lateral veins distinct ...*E. Angustifolium*
 - Stem small, 12-35 cm tall, with pubescent leaves that lack prominent lateral veins...*E. Latifolium*
 - Leaves opposite or leaves opposite at base and alternate near inflorescence
 - Stem leaves linear, basal leaves oblong to elliptic, leaves pubescent along midvein and margins, lacks filiform stolons, stem green...*E. davuricum*
 - Leaves oblong to elliptic, can be entire or dentate; leaves glabrous, stem can be green or red...*E. anagallidifolium*

E. Angustifolium

- Tall, erect stems- 20 to 200 cm
- Leaves opposite and mostly glabrous
- Prominent lateral veins on leaves
- Inflorescence in tall raceme that blooms starting at the bottom
- Flowers large-
- Woody rootstock
- Fruit a capsule



Specimen 1



E. latifolium

- *Stem 12-35 cm tall*
- *Leaves pubescent and opposite*
- *Lateral veins not prominent*
- *Flowers large- 2 to 6 cm in diameter*
- *Inflorescence in terminal raceme*
- *Fruit a capsule*
- *Grows in clumps*

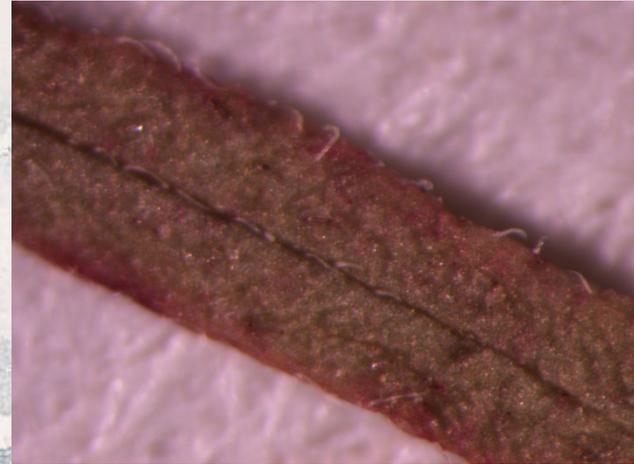


Specimen 2



E. davuricum

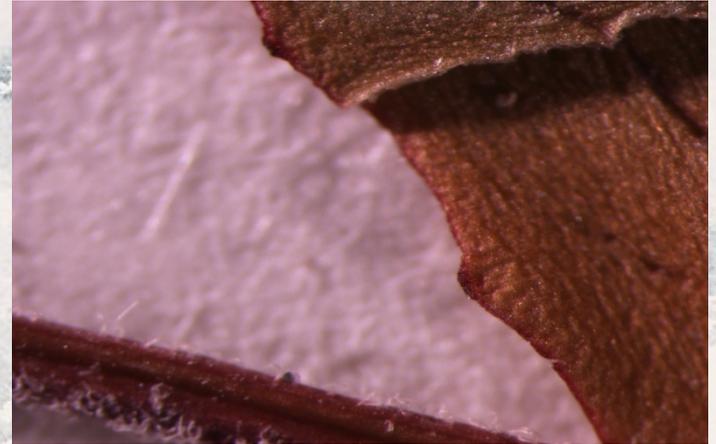
- *Erect stem 10-40 cm tall and green*
- *Leaves pubescent along margin and midvein*
- *Basal leaves oblong to elliptic and stem leaves linear*
- *Lacks stolons*
- *Petals white but flowers are few*
- *Seed is papillate*



Specimen 3

E. Anagallidifolium

- *10-15 cm tall*
- *Grows in clumps*
- *Stems red tinted and s-shaped*
- *Stems pubescent*
- *Leaves oblong to elliptic, and entire or dentate, subglabrous*
- *Petals pink to purple, rarely white*
- *Seeds smooth*



Specimen 4



Specimen

1. Ora D. Clark. Hogatza Highlands, Kiana, on Kobuk R. North America, United States, Alaska, Selawik Quad. JUL-AUG 1937. UAM:Herb:130936. Onagraceae *Epilobium angustifolium*.
2. Carolyn L. Parker, David F. Murray, Rob Lipkin, Mike Emers. Mt. Schwatka, limestone ridge NW of peak. North America, United States, Alaska, Livengood Quad, White Mountains National Recreation Area. 1994/06/15. UAM:Herb:10909. Onagraceae *Epilobium latifolium*.
3. Jim Ebersole, Bill Bowman. Arctic Foothills, Oumalik Test Well #1. North America, United States, Alaska, Lookout Ridge Quad, National Petroleum Reserve-Alaska. 20 JUN-07 AUG 1981. UAM:Herb:133667. Onagraceae *Epilobium davuricum*.
4. Leslie A. Viereck. Prince William Sound, vic. Nol River, Columbia Bay, Transect E terminus. North America, United States, Alaska, Valdez Quad, Chugach National Forest. 1985/08/15. UAM:Herb:12121. Onagraceae *Epilobium Anagallidifolium*.

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Questions?

