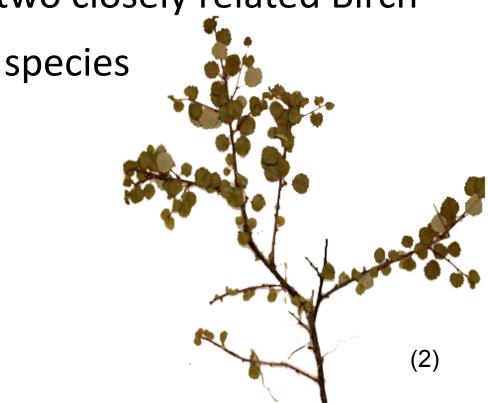
Betula nana ssp. exilis vs Betula glandulosa:

a comparison of two closely related Birch



Betula glandulosa



Betula nana ssp. exilis

Betulaceae

- Fagales order
- -Family Includes Birches and Alders
- -Contains six genera and 120-150 species of trees and shrubs
- -Monoecious plants
- -Flowers are catkins
- -Fruit is achene, nutlet or samara

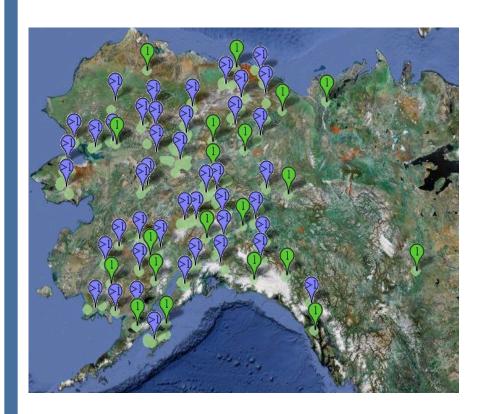


Birch Species of Alaska

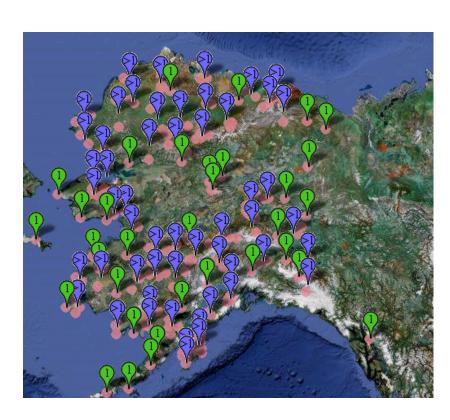
- Three species of tree birches
- Alaska Paper Birch (betula neoalaskana), Western Paper Birch (betula papyrifera) and Kenai Birch (Betula kenaica)
- Two species of Dwarf Birch
- Resin Birch (Betula glandulosa) and Dwarf Arctic Birch (Betula nana)
- Dwarf Birches are distinguished from the tree species by
- shrubby growth habit
- Darker, less paper-like bark

Overlapping Ranges

Hybridization is common



B. glandulosa



B. nana

Betula glandulosa

Also known commonly as

- Resin Birch
- Shrub Birch
- Bog Birch



The species epithat comes from the dense glandular bumps that characterize this plant

Betula nana ssp exilis

- Also known commonly as
 - Dwarf Arctic Birch
 - Dwarf Birch
 - Dwarf Alpine Birch



Telling them apart can be extremely difficult



B. glandulosa

B.nana

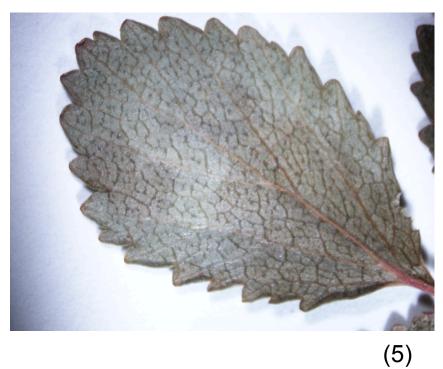
Some Characters to Look for

- Leaf shape
- Glands on the twigs
- The shape of leaf base
- Shade of the leaf's underside

Leaf Shape

Blade Longer than Broad

Blade Broader than Long



B. glandulosa

B. nana

(6)

Twig Glands

Dense Glands



Glands present, but sparse



B. glandulosa

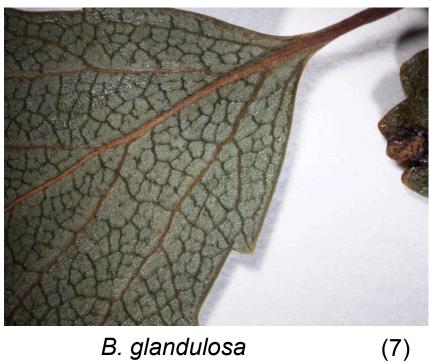
(3)

B. nana

(4)

Leaf Base Shape

Wedge shaped base



B. glandulosa

Cordate base



B. nana

(2)

Shade of Leaf's Underside

Abaxial side has yellow tint

Abaxial Side is More Pale





B. glandulosa

(1)

B. nana

(2)

Can you tell *B. glandulosa* from *B. nana*?





Both leaves are from the same plant!





(5)

Most often plants are intermediate

Museum Specimen

- 1.V143001
- 2. V111836
- 3.51737
- 4. V111532
- 5. V112382
- 6. V110605
- 7. V123889

References

- Viereck, L. A. & E. L. Little, 2007. Alaska Trees and Shrubs. 2nd Edition. University of Alaska Press, Fairbanks, Alaska.
- Hultén, Eric. 1968. Flora of Alaska and Neighboring Territories. Sanford University Press, Sanford, California, USA.
- Distribution maps courtesy of Google Maps and Arctos
- Photos taken by Gretchen Garcia
- Some images came from the UAF Arctos Database