

Supplementary material to the paper Wells AF et al. Vegetation classification for northwestern Arctic Alaska using an EcoVeg approach: tussock tundra and low and tall willow groups and alliances. Vegetation Classification and Survey. DOI: 10.3897/VCS.65469

**Supplementary material 4. Key to the low/tall willow and tussock tundra plant associations from the Ecological Land Survey Legacy Database (ELD) Arctic Plant Association Classification, Alaska.**

1a. The site is located in the Arctic or Boreal ecoregion and is not influenced by salt water. The soils are flooded or wet for most or all of the freeze-free period. The vegetation is characterized by hydrophytic plants with at least 10% cover of vascular plants. Arctic & Boreal Freshwater Marsh, Wet Meadow & Shrubland Division (2.C.4.Np).....	2
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2b. Site is located in the Arctic ecoregion. Arctic Freshwater Marsh, Wet Meadow & Shrubland Macrogroup (M870). ....	3
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.....	
5a. Combined cover of low shrubs $\geq 25\%$ . Arctic Ombrotrophic Wet Low Shrublands Alliance Proposed ( A4366p) . .	6
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7a. <i>Betula nana</i> cover $\geq 10\%$ .....	8
8a. Combined cover of <i>Carex aquatilis</i> and <i>Eriophorum angustifolium</i> $\geq 10\%$ . ....	
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6b. Vegetation not as above. .... Undefined Association	
5b. Vegetation not as above. .... Undefined Alliance	
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18a. <i>Equisetum variegatum</i> cover $\geq 5\%$ . .... <i>Salix richardsonii</i> / <i>Equisetum variegatum</i>	

18b. Vegetation not as above. ....	Undefined Association
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16b. Vegetation not as above. ....	Undefined Association
15b. Vegetation not as above. ....	Undefined Alliance
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1b. The site located in the Arctic and is not influenced by salt water. The soils are moist to dry for most or all of the freeze-free period. The vegetation is dominated by mesomorphic or xeromorphic plants with at least 10% cover of vascular plants, or the site is partially vegetated or barren with $< 10\%$ cover of vascular plants. Arctic Tundra & Barrens Division (4.B.2.Xa) . .	21
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29b. Vegetation not as above. ....	Undefined Association
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39b. Vegetation not as above. ....	Undefined Association
35b. Vegetation not as above. ....	Undefined Association
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42b. Vegetation not as above. ....	Undefined Association
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51b. Vegetation not as above. . . . .	Undefined Association
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65b. Vegetation not as above.....	Undefined Association
63b. Vegetation not as above.....	Undefined Association
62b. Vegetation not as above.....	66
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66b. Vegetation not as above.....	Undefined Association
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71b. Vegetation not as above.....	73
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73b. Vegetation not as above.....	76
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77b. Vegetation not as above.....	Undefined Association
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81b. Vegetation not as above.....	Undefined Association
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83b. Vegetation not as above.....	Undefined Association

82b. Vegetation not as above.....	84
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84b. Vegetation not as above.....	Undefined Association
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90b. Vegetation not as above.....	<i>Salix richardsonii/Equisetum arvense</i>
88b. Vegetation not as above.....	Undefined Association
87b. Vegetation not as above.....	Undefined Association
85b. Vegetation not as above.....	Undefined Association
68b. Vegetation not as above.....	Undefined Alliance
60b. Vegetation not as above. Not considered further here.....	Arctic Dwarf Shrub Tundra Group (G896)
59b. Vegetation not as above. Not considered further here.....	..... ..... ..... Arctic Herbaceous Nontussock Tundra Group Proposed (G898p)
44b. Vegetation and/or site not as above.....	Undefined Macrogroup