

Dominant arctic Alaska plant communities

Numbered units within the table are plant community types. Braun-Blanquet descriptions, dominant plant functional types and species are listed where data were available. Literature citations in (small font) include unit names, habitat, citation and location.

Major table sections are Tundra Bioclimate Subzones (see inset map on front side)

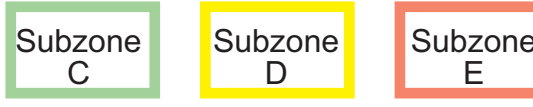


Table columns within the subzone sections separate acidic and non-acidic communities (see inset map on front side)

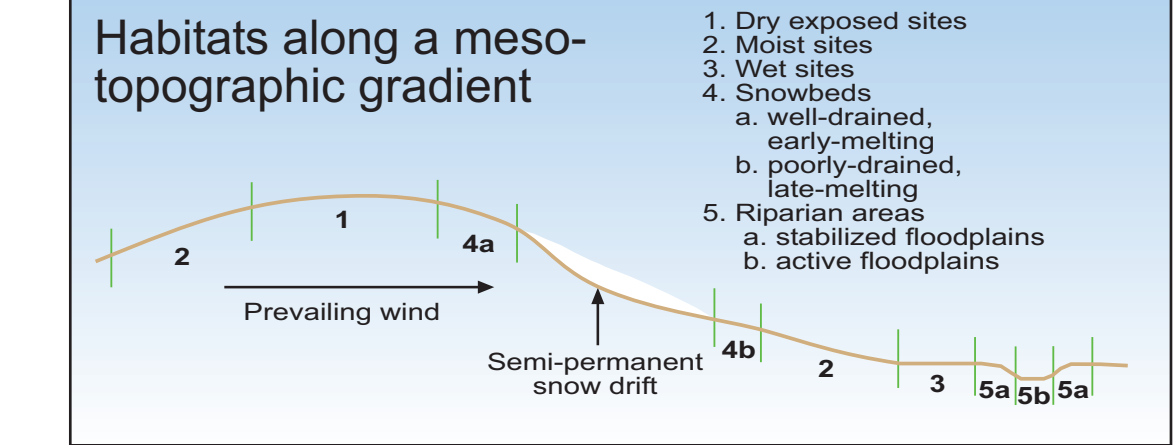
Blocks of rows are positions along a mesotopographic gradient (see figure to right)

Colored text outlines denote Floristic Provinces (see inset map on front side)



Subzone C Northern part of Arctic Coastal Plain

Table for Subzone C Northern part of Arctic Coastal Plain. Columns: Habitat along the mesotopographic gradient, Acidic substrates (community # 1-7), Non-acidic substrates (community # 8-12), and Moist sites. Rows include 1. Prostrate dwarf shrub (Salix rotundifolia), 2. Sedge (Carex aquatilis), 3. Rush (Luzula confinis), 4. Sedge (Eriophorum angustifolium), 6. Grass (Phlypsia algida), 7. Grass (Phlypsia algida), 10. Sedge (Carex aquatilis), 11. No data, 12. Forb (Epilobium latifolium), 13. Prostrate dwarf shrub (Dryas octopetala), 14. Graminoid (Arctostaphylos latifolia), 15. Tussock sedge (Eriophorum vaginatum), 16. Tussock sedge (Eriophorum vaginatum), 17. Tussock sedge (Eriophorum vaginatum), 18. Graminoid (Calmagrostis canadensis), 19. Sedge (Carex microchloa), 20. Sedge (Carex aquatilis), 21. Hemiprostrate dwarf shrub (Cassiope tetragona), 22. Low shrub (Salix alaxensis), 23. Low shrub (Salix pulchra), 24. Prostrate dwarf shrub (Dryas octopetala), 25. Graminoid (Arctostaphylos latifolia), 26. Prostrate dwarf shrub (Dryas octopetala), 27. (cont.) Map unit 424, 28. Graminoid (Deschampsia caespitosa), 29. Sedge (Carex aquatilis), 30. Hemiprostrate dwarf shrub (Cassiope tetragona), 31. Prostrate dwarf shrub (Salix rotundifolia), 32. Forb (Epilobium latifolium), 33. Low shrub (Salix pulchra), 34. Prostrate dwarf shrub (Dryas octopetala), 35. Prostrate dwarf shrub (Vaccinium uliginosum), 36. Prostrate dwarf shrub (Vaccinium uliginosum), 37. Prostate dwarf shrub (Dryas octopetala), 38. Prostrate dwarf shrub (Arctostaphylos latifolia), 39. Prostrate dwarf shrub (Loiseleuria procumbens), 40. Prostrate and erect dwarf shrub (Dryas integrifolia), 41. Tussock sedge (Eriophorum vaginatum), 42. (cont.) Cotoneaster-sedge-dwarf herb sedge complex, 43. (cont.) Cotoneaster-sedge-dwarf herb sedge complex, 44. Low shrub (Betula nana), 45. Low shrub (Salix pulchra), 46. Tussock sedge (Eriophorum vaginatum), 47. (cont.) Vegetation type 106g, 48. (cont.) Vegetation type 106g, 49. Erect dwarf shrub (Andromeda polifolia), 50. Erect dwarf shrub (Andromeda polifolia), 51. Sedge (Carex aquatilis), 52. Hemiprostrate dwarf shrub (Cassiope tetragona), 53. Low shrub (Betula nana), 54. Low shrub (Betula nana), 55. Low shrub (Betula nana), 56. Graminoid (Carex aquatilis), 57. Sedge (Carex aquatilis), 58. Sedge (Eriophorum rusciculatum), 59. Sedge (Carex aquatilis), 60. Erect dwarf shrub (Andromeda polifolia), 61. Sedge (Carex aquatilis), 62. Hemiprostrate dwarf shrub (Cassiope tetragona), 63. Prostrate dwarf shrub (Salix rotundifolia), 64. Hemiprostrate dwarf shrub (Cassiope tetragona), 65. Low shrub (Salix pulchra), 66. Tall shrub (Salix alaxensis), 67. Tall shrub (Salix alaxensis), 68. Low shrub (Salix pulchra), 69. Low or tall shrub (Salix alaxensis), 70. Tall shrub (Salix arbusculosa), 71. Prostate dwarf shrub (Dryas octopetala), 72. Prostrate dwarf shrub (Dryas octopetala), 73. Prostrate dwarf shrub (Dryas octopetala), 74. Lichen (Umbilicaria crux), 75. Sedges (Carex bigelowii), 76. Low shrub (Betula nana), 77. Sedge (Carex aquatilis), 78. Graminoid (Puccinellia phryganodes), 79. Hemiprostrate dwarf shrub (Cassiope tetragona), 80. Prostrate dwarf shrub (Salix rotundifolia), 81. Dwarf shrub (Salix reticulata), 82. Forb (Castilleja caudata), 83. Prostrate dwarf shrub (Dryas integrifolia), 84. Tall shrub (Salix alaxensis), 85. Tall shrub (Alnus viridis), 86. Low shrub (Salix pulchra), 87. Low shrub (Salix pulchra), 88. Low shrub (Salix pulchra), 89. Low or tall shrub (Salix alaxensis), 90. Tall shrub (Salix arbusculosa), 91. Prostrate dwarf shrub (Dryas octopetala), 92. Prostrate dwarf shrub (Dryas octopetala), 93. Prostrate dwarf shrub (Dryas octopetala), 94. Prostrate dwarf shrub (Dryas octopetala), 95. Prostrate dwarf shrub (Dryas octopetala), 96. Erect dwarf shrub (Betula nana), 97. Erect dwarf shrub (Betula nana), 98. Erect dwarf shrub (Betula nana), 99. Erect dwarf shrub (Betula nana), 100. Erect dwarf shrub (Betula nana), 101. Erect dwarf shrub (Betula nana), 102. Erect dwarf shrub (Betula nana), 103. Erect dwarf shrub (Betula nana), 104. Erect dwarf shrub (Betula nana), 105. Erect dwarf shrub (Betula nana), 106. Erect dwarf shrub (Betula nana), 107. Erect dwarf shrub (Betula nana), 108. Erect dwarf shrub (Betula nana), 109. Erect dwarf shrub (Betula nana), 110. Erect dwarf shrub (Betula nana), 111. Erect dwarf shrub (Betula nana), 112. Erect dwarf shrub (Betula nana), 113. Erect dwarf shrub (Betula nana), 114. Erect dwarf shrub (Betula nana), 115. Erect dwarf shrub (Betula nana), 116. Erect dwarf shrub (Betula nana), 117. Erect dwarf shrub (Betula nana), 118. Erect dwarf shrub (Betula nana), 119. Erect dwarf shrub (Betula nana), 120. Erect dwarf shrub (Betula nana).



Subzone D Arctic Coastal Plain, northern Seward Peninsula, St. Lawrence Island

Table for Subzone D Arctic Coastal Plain, northern Seward Peninsula, St. Lawrence Island. Columns: Habitat along the mesotopographic gradient, Acidic substrates (community # 13-23), Non-acidic substrates (community # 24-34), and Moist sites. Rows include 13. Prostrate dwarf shrub (Dryas integrifolia), 14. Graminoid (Arctostaphylos latifolia), 15. Tussock sedge (Eriophorum vaginatum), 16. Tussock sedge (Eriophorum vaginatum), 17. Tussock sedge (Eriophorum vaginatum), 18. Graminoid (Calmagrostis canadensis), 19. Sedge (Carex microchloa), 20. Sedge (Carex aquatilis), 21. Hemiprostrate dwarf shrub (Cassiope tetragona), 22. Low shrub (Salix alaxensis), 23. Low shrub (Salix pulchra), 24. Prostrate dwarf shrub (Dryas integrifolia), 25. Prostrate dwarf shrub (Dryas integrifolia), 26. Prostrate dwarf shrub (Dryas integrifolia), 27. Sedge (Carex bigelowii), 28. Graminoid (Deschampsia caespitosa), 29. Sedge (Carex aquatilis), 30. Hemiprostrate dwarf shrub (Cassiope tetragona), 31. Prostrate dwarf shrub (Salix rotundifolia), 32. Forb (Epilobium latifolium), 33. Low shrub (Salix pulchra), 34. Prostrate dwarf shrub (Dryas octopetala), 35. Prostrate dwarf shrub (Vaccinium uliginosum), 36. Prostrate dwarf shrub (Vaccinium uliginosum), 37. Prostate dwarf shrub (Dryas octopetala), 38. Prostrate dwarf shrub (Arctostaphylos latifolia), 39. Prostrate dwarf shrub (Loiseleuria procumbens), 40. Prostrate and erect dwarf shrub (Dryas integrifolia), 41. Tussock sedge (Eriophorum vaginatum), 42. (cont.) Cotoneaster-sedge-dwarf herb sedge complex, 43. (cont.) Cotoneaster-sedge-dwarf herb sedge complex, 44. Low shrub (Betula nana), 45. Low shrub (Salix pulchra), 46. Tussock sedge (Eriophorum vaginatum), 47. (cont.) Vegetation type 106g, 48. (cont.) Vegetation type 106g, 49. Erect dwarf shrub (Andromeda polifolia), 50. Erect dwarf shrub (Andromeda polifolia), 51. Sedge (Carex aquatilis), 52. Hemiprostrate dwarf shrub (Cassiope tetragona), 53. Low shrub (Betula nana), 54. Low shrub (Betula nana), 55. Low shrub (Betula nana), 56. Graminoid (Carex aquatilis), 57. Sedge (Carex aquatilis), 58. Sedge (Eriophorum rusciculatum), 59. Sedge (Carex aquatilis), 60. Erect dwarf shrub (Andromeda polifolia), 61. Sedge (Carex aquatilis), 62. Hemiprostrate dwarf shrub (Cassiope tetragona), 63. Prostrate dwarf shrub (Salix rotundifolia), 64. Hemiprostrate dwarf shrub (Cassiope tetragona), 65. Low shrub (Salix pulchra), 66. Tall shrub (Salix alaxensis), 67. Tall shrub (Salix alaxensis), 68. Low shrub (Salix pulchra), 69. Low or tall shrub (Salix alaxensis), 70. Tall shrub (Salix arbusculosa), 71. Prostate dwarf shrub (Dryas octopetala), 72. Prostrate dwarf shrub (Dryas octopetala), 73. Prostrate dwarf shrub (Dryas octopetala), 74. Lichen (Umbilicaria crux), 75. Sedges (Carex bigelowii), 76. Low shrub (Betula nana), 77. Sedge (Carex aquatilis), 78. Graminoid (Puccinellia phryganodes), 79. Hemiprostrate dwarf shrub (Cassiope tetragona), 80. Prostrate dwarf shrub (Salix rotundifolia), 81. Dwarf shrub (Salix reticulata), 82. Forb (Castilleja caudata), 83. Prostrate dwarf shrub (Dryas integrifolia), 84. Tall shrub (Salix alaxensis), 85. Tall shrub (Alnus viridis), 86. Low shrub (Salix pulchra), 87. Low shrub (Salix pulchra), 88. Low shrub (Salix pulchra), 89. Low or tall shrub (Salix alaxensis), 90. Tall shrub (Salix arbusculosa), 91. Prostrate dwarf shrub (Dryas octopetala), 92. Prostrate dwarf shrub (Dryas octopetala), 93. Prostrate dwarf shrub (Dryas octopetala), 94. Prostrate dwarf shrub (Dryas octopetala), 95. Prostrate dwarf shrub (Dryas octopetala), 96. Erect dwarf shrub (Betula nana), 97. Erect dwarf shrub (Betula nana), 98. Erect dwarf shrub (Betula nana), 99. Erect dwarf shrub (Betula nana), 100. Erect dwarf shrub (Betula nana), 101. Erect dwarf shrub (Betula nana), 102. Erect dwarf shrub (Betula nana), 103. Erect dwarf shrub (Betula nana), 104. Erect dwarf shrub (Betula nana), 105. Erect dwarf shrub (Betula nana), 106. Erect dwarf shrub (Betula nana), 107. Erect dwarf shrub (Betula nana), 108. Erect dwarf shrub (Betula nana), 109. Erect dwarf shrub (Betula nana), 110. Erect dwarf shrub (Betula nana), 111. Erect dwarf shrub (Betula nana), 112. Erect dwarf shrub (Betula nana), 113. Erect dwarf shrub (Betula nana), 114. Erect dwarf shrub (Betula nana), 115. Erect dwarf shrub (Betula nana), 116. Erect dwarf shrub (Betula nana), 117. Erect dwarf shrub (Betula nana), 118. Erect dwarf shrub (Betula nana), 119. Erect dwarf shrub (Betula nana), 120. Erect dwarf shrub (Betula nana).

Subzone E Arctic Foothills, Seward Peninsula, and southwestern Alaska

Table for Subzone E Arctic Foothills, Seward Peninsula, and southwestern Alaska. Columns: Habitat along the mesotopographic gradient, Acidic substrates (community # 35-49), Non-acidic substrates (community # 71-76), and Moist sites. Rows include 35. Prostrate dwarf shrub (Vaccinium uliginosum), 36. Prostrate dwarf shrub (Vaccinium uliginosum), 37. Prostate dwarf shrub (Dryas octopetala), 38. Prostrate dwarf shrub (Arctostaphylos latifolia), 39. Prostrate dwarf shrub (Loiseleuria procumbens), 40. Prostrate and erect dwarf shrub (Dryas integrifolia), 41. Tussock sedge (Eriophorum vaginatum), 42. (cont.) Cotoneaster-sedge-dwarf herb sedge complex, 43. (cont.) Cotoneaster-sedge-dwarf herb sedge complex, 44. Low shrub (Betula nana), 45. Low shrub (Salix pulchra), 46. Tussock sedge (Eriophorum vaginatum), 47. (cont.) Vegetation type 106g, 48. (cont.) Vegetation type 106g, 49. Erect dwarf shrub (Andromeda polifolia), 50. Erect dwarf shrub (Andromeda polifolia), 51. Sedge (Carex aquatilis), 52. Hemiprostrate dwarf shrub (Cassiope tetragona), 53. Low shrub (Betula nana), 54. Low shrub (Betula nana), 55. Low shrub (Betula nana), 56. Graminoid (Carex aquatilis), 57. Sedge (Carex aquatilis), 58. Sedge (Eriophorum rusciculatum), 59. Sedge (Carex aquatilis), 60. Erect dwarf shrub (Andromeda polifolia), 61. Sedge (Carex aquatilis), 62. Hemiprostrate dwarf shrub (Cassiope tetragona), 63. Prostrate dwarf shrub (Salix rotundifolia), 64. Hemiprostrate dwarf shrub (Cassiope tetragona), 65. Low shrub (Salix pulchra), 66. Tall shrub (Salix alaxensis), 67. Tall shrub (Salix alaxensis), 68. Low shrub (Salix pulchra), 69. Low or tall shrub (Salix alaxensis), 70. Tall shrub (Salix arbusculosa), 71. Prostate dwarf shrub (Dryas octopetala), 72. Prostrate dwarf shrub (Dryas octopetala), 73. Prostrate dwarf shrub (Dryas octopetala), 74. Lichen (Umbilicaria crux), 75. Sedges (Carex bigelowii), 76. Low shrub (Betula nana), 77. Sedge (Carex aquatilis), 78. Graminoid (Puccinellia phryganodes), 79. Hemiprostrate dwarf shrub (Cassiope tetragona), 80. Prostrate dwarf shrub (Salix rotundifolia), 81. Dwarf shrub (Salix reticulata), 82. Forb (Castilleja caudata), 83. Prostrate dwarf shrub (Dryas integrifolia), 84. Tall shrub (Salix alaxensis), 85. Tall shrub (Alnus viridis), 86. Low shrub (Salix pulchra), 87. Low shrub (Salix pulchra), 88. Low shrub (Salix pulchra), 89. Low or tall shrub (Salix alaxensis), 90. Tall shrub (Salix arbusculosa), 91. Prostrate dwarf shrub (Dryas octopetala), 92. Prostrate dwarf shrub (Dryas octopetala), 93. Prostrate dwarf shrub (Dryas octopetala), 94. Prostrate dwarf shrub (Dryas octopetala), 95. Prostrate dwarf shrub (Dryas octopetala), 96. Erect dwarf shrub (Betula nana), 97. Erect dwarf shrub (Betula nana), 98. Erect dwarf shrub (Betula nana), 99. Erect dwarf shrub (Betula nana), 100. Erect dwarf shrub (Betula nana), 101. Erect dwarf shrub (Betula nana), 102. Erect dwarf shrub (Betula nana), 103. Erect dwarf shrub (Betula nana), 104. Erect dwarf shrub (Betula nana), 105. Erect dwarf shrub (Betula nana), 106. Erect dwarf shrub (Betula nana), 107. Erect dwarf shrub (Betula nana), 108. Erect dwarf shrub (Betula nana), 109. Erect dwarf shrub (Betula nana), 110. Erect dwarf shrub (Betula nana), 111. Erect dwarf shrub (Betula nana), 112. Erect dwarf shrub (Betula nana), 113. Erect dwarf shrub (Betula nana), 114. Erect dwarf shrub (Betula nana), 115. Erect dwarf shrub (Betula nana), 116. Erect dwarf shrub (Betula nana), 117. Erect dwarf shrub (Betula nana), 118. Erect dwarf shrub (Betula nana), 119. Erect dwarf shrub (Betula nana), 120. Erect dwarf shrub (Betula nana).

Table for Subzone F (implied) containing rows 51-120. Columns: Habitat along the mesotopographic gradient, Acidic substrates (community # 50-70), Non-acidic substrates (community # 77-85), and Moist sites. Rows include 51. Low shrub (Betula nana), 52. Sedge (Carex aquatilis), 53. Low shrub (Betula nana), 54. Low shrub (Betula nana), 55. Low shrub (Betula nana), 56. Graminoid (Carex aquatilis), 57. Sedge (Carex aquatilis), 58. Sedge (Eriophorum rusciculatum), 59. Sedge (Carex aquatilis), 60. Erect dwarf shrub (Andromeda polifolia), 61. Sedge (Carex aquatilis), 62. Hemiprostrate dwarf shrub (Cassiope tetragona), 63. Prostrate dwarf shrub (Salix rotundifolia), 64. Hemiprostrate dwarf shrub (Cassiope tetragona), 65. Low shrub (Salix pulchra), 66. Tall shrub (Salix alaxensis), 67. Tall shrub (Salix alaxensis), 68. Low shrub (Salix pulchra), 69. Low or tall shrub (Salix alaxensis), 70. Tall shrub (Salix arbusculosa), 71. Prostate dwarf shrub (Dryas octopetala), 72. Prostrate dwarf shrub (Dryas octopetala), 73. Prostrate dwarf shrub (Dryas octopetala), 74. Lichen (Umbilicaria crux), 75. Sedges (Carex bigelowii), 76. Low shrub (Betula nana), 77. Sedge (Carex aquatilis), 78. Graminoid (Puccinellia phryganodes), 79. Hemiprostrate dwarf shrub (Cassiope tetragona), 80. Prostrate dwarf shrub (Salix rotundifolia), 81. Dwarf shrub (Salix reticulata), 82. Forb (Castilleja caudata), 83. Prostrate dwarf shrub (Dryas integrifolia), 84. Tall shrub (Salix alaxensis), 85. Tall shrub (Alnus viridis), 86. Low shrub (Salix pulchra), 87. Low shrub (Salix pulchra), 88. Low shrub (Salix pulchra), 89. Low or tall shrub (Salix alaxensis), 90. Tall shrub (Salix arbusculosa), 91. Prostrate dwarf shrub (Dryas octopetala), 92. Prostrate dwarf shrub (Dryas octopetala), 93. Prostrate dwarf shrub (Dryas octopetala), 94. Prostrate dwarf shrub (Dryas octopetala), 95. Prostrate dwarf shrub (Dryas octopetala), 96. Erect dwarf shrub (Betula nana), 97. Erect dwarf shrub (Betula nana), 98. Erect dwarf shrub (Betula nana), 99. Erect dwarf shrub (Betula nana), 100. Erect dwarf shrub (Betula nana), 101. Erect dwarf shrub (Betula nana), 102. Erect dwarf shrub (Betula nana), 103. Erect dwarf shrub (Betula nana), 104. Erect dwarf shrub (Betula nana), 105. Erect dwarf shrub (Betula nana), 106. Erect dwarf shrub (Betula nana), 107. Erect dwarf shrub (Betula nana), 108. Erect dwarf shrub (Betula nana), 109. Erect dwarf shrub (Betula nana), 110. Erect dwarf shrub (Betula nana), 111. Erect dwarf shrub (Betula nana), 112. Erect dwarf shrub (Betula nana), 113. Erect dwarf shrub (Betula nana), 114. Erect dwarf shrub (Betula nana), 115. Erect dwarf shrub (Betula nana), 116. Erect dwarf shrub (Betula nana), 117. Erect dwarf shrub (Betula nana), 118. Erect dwarf shrub (Betula nana), 119. Erect dwarf shrub (Betula nana), 120. Erect dwarf shrub (Betula nana).

Mapping references: Acedo, W. D. A. Walker, L. Gaydos, and J. Wray. 1982. ... Murray, D. F. 1974. Notes on the botany at selected localities in the Alena and Kilik River valleys, central Brooks Range, Alaska. Final report CX-9000-3-0125, Gates of the Arctic Volcanic Study. ... Young, S. B. 1971. The vascular flora of St. Lawrence Island with special reference to floristic zonation in the arctic regions. Contributions from the Gray Herbarium 201: 1-115. ...