

**Legend for Prudhoe Bay ArcSEES Environmental and Soil Data (Cod**

<b>Landforms (CODE)</b>	<b>Microsites (CODE)</b>
1 Hills (including kames and moraines)	1 Frost-scar element
2 Talus slope	2 Inter-frost scar element
3 Colluvial basin	3 Strang or hummock
4 Glaciofluvial and other fluvial terraces	4 Flark, interstrang, or interhummock area
5 Marine terrace	5 Polygon center
6 Floodplains	6 Polygon trough
7 Drained lakes and flat lake margins	7 Polygon rim
8 Abandoned point bars and sloughs	8 Stripe element
9 Estuary	9 Inter-stripe element
10 Lake or pond	10 Point bar (raised element)
11 Stream	11 Slough (wet element)
12 Sea bluff	12 Ring
13 Lake bluff	13 Thermokarst pit
14 Stream bluff	14 _____
15 Sand dunes	15 _____
16 Beach	
17 Disturbed	
18 Alluvial plain/abandoned	<b>Site Moisture (modified from Komárková 1983) (SCALAR)</b>
19 Island	1 Extremely xeric - almost no moisture; no plant growth
20 Plain - residual surface	2 Very xeric - very little moisture; dry sand dunes
21 Disturbed, gravel	3 Xeric - little moisture; stabilized sand dunes, dry ridge tops
	4 Subxeric - noticeable moisture; well-drained slopes, ridges
	5 Subxeric to mesic - very noticeable moisture; flat to gently sloping
<b>Surficial Geology (Parent Material) (CODE)</b>	6 Mesic-moderate moisture; flat or shallow depressions
1 Glacial tills	7 Mesic to subhygric - considerable moisture; depressions
2 Glaciofluvial deposits	8 Subhygric - very considerable moisture; saturated but with < 5% standing water < 10 cm deep
3 Active alluvial sands	9 Hygric - much moisture; up to 100% of surface under water 10 to 50 cm deep; lake margins, shallow ponds, streams
4 Active alluvial gravels	10 Hydric - very much moisture; 100% of surface under water 50 to 150 cm deep; lakes, streams
5 Stabilized alluvium (sands & gravels)	
6 Undifferentiated hill slope colluvium	
7 Basin colluvium and organic deposits	
8 Drained lake or lacustrine organic deposits	
9 Lake or pond organic, sand, or silt	
10 Undifferentiated sands	<b>Soil Moisture (from Komárková 1983) (SCALAR)</b>
11 Undifferentiated clay	1 Very dry - very little moisture; soil does not stick together
12 Roads and gravel pads	2 Dry - little moisture; soil somewhat sticks together
13 Loess	3 Damp - noticeable moisture; soil sticks together but crumbles

- |    |           |   |   |
|----|-----------|---|---|
| 14 | Fine sand | 4 | Damp to moist - very noticeable moisture; soil clumps |
| 15 | _____     | 5 | Moist - moderate moisture; soil binds but can be      |
| 16 | _____     |   | broken apart  |

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|---|--|
| 6 | Moist to wet - considerable moisture; soil binds and sticks to fingers |
|---|--|

**Surficial Geomorphology (CODE)**

- |   |                                       |
|---|---------------------------------------|
| 1 | Frost scars                           |
| 2 | Wetland hummocks                      |
| 3 | Turf hummocks                         |
| 4 | Gelifluction features                 |
| 5 | Strangmoor or aligned hummocks        |
| 6 | High- or flat-centered polygons       |
| 7 | Mixed high- and low-centered polygons |
| 8 | Sorted and non-sorted stripes         |

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|----|---|
| 7  | Wet - very considerable moisture; water drops can be squeezed out of soil |
| 8  | Very wet - much moisture can be squeezed out of soil                      |
| 9  | Saturated - very much moisture; water drips out of soil                   |
| 10 | Very saturated - extreme moisture; soil is more liquid than solid         |

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|----|--|
| 9  | Palsas   |
| 10 | Thermokarst pits   |
| 11 | Featureless or with less 20% frost scars                             |
| 12 | Well-developed hillslope water tracks and small streams > 50 cm deep |

**Glacial Geology (CODE)**

- |   |         |   |       |
|---|---------|---|-------|
| 1 | Till    | 4 | _____ |
| 2 | Outwash | 5 | _____ |
| 3 | Bedrock | 6 | _____ |
|   |         | 7 | _____ |

- |    |   |
|----|---|
| 13 | Poorly developed hillslope water tracks, < 50 cm deep |
|----|---|

**Topographic Position (CODE)**

- |    |   |
|----|---|
| 14 | Gently rolling or irregular microrelief |
| 15 | Stoney surface                          |
| 16 | Lakes and ponds                         |
| 17 | Disturbed                               |
| 18 | Hill hummock                            |
| 19 | Wetland                                 |
| 20 | Low-centered polygon                    |
| 21 | _____                                   |

- |   |                        |
|---|------------------------|
| 1 | Hill crest or shoulder |
| 2 | Side slope             |
| 3 | Footslope or toeslope  |
| 4 | Flat                   |
| 5 | Drainage channel       |
| 6 | Depression             |
| 7 | Lake or pond           |

<sup>1</sup>Report 15-01 <http://www.geobotany.uaf.edu/library/pubs/WalkerDA20>:

## es and Scalar Values)<sup>1</sup>

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### Soil Units (CODE)

- 1 Pergelic Cryorthent, acid
- 2 Pergelic Cryopsamment
- 3 Pergelic Cryohemist, euic
- 4 Pergelic Cryosaprist, euic
- 5 Lithic Pergelic Cryosaprist
- 6 Pergelic Cryofibrist, euic
- 7 Histic Pergelic Cryaquept, acid
- 8 Histic Pergelic Cryaquept, nonacid (Aquiturbol)
- 9 Pergelic Cryaquept, acid (Ochriturbel)
- 10 Pergelic Cryaquept, nonacid
- 11 Pergelic Cryochrept
- 12 Pergelic Cryumbrept
- 13 Ruptic-Lithic Cryumbrept
- 14 Pergelic Cryaquoll
- 15 Histic Pergelic Cryaquoll
- 16 Pergelic Cryoboroll (Molliturbel)
- 17 \_\_\_\_\_
- 18 \_\_\_\_\_
- 19 \_\_\_\_\_

### Estimated Snow Duration (SCALAR)

- 1 Snow free all year
- 2 Snow free most of winter; some snow cover persists after storm but is blown free soon afterward
- 3 Snow free prior to melt out but with snow most of winter
- 4 Snow free immediately after melt out
- 5 Snow bank persists 1-2 weeks after melt out
- 6 Snow bank persists 3-4 weeks after melt out
- 7 Snow bank persists 4-8 weeks after melt out
- 8 Snow bank persists 8-12 weeks after melt out
- 9 Very short snow free period
- 10 Deep snow all year

### Animal and Human Disturbance (degree) (SCALAR)

- 0 No sign present
- 1 Some sign present; no disturbance

- 2 Minor disturbance or extensive sign
- 3 Moderate disturbance; small dens or light grazing
- 4 Major disturbance; multiple dens or noticeable trampling
- 5 Very major disturbance; very extensive tunneling or large pit

**Animal and Human Disturbance (type) (CODE)**

- 1 Ptarmigan scat
- 2 Caribou tracks
- 3 Caribou scat
- 4 Goose tracks, scat, grazing
- 5 Squirrel mounds
- 6 Vole tracks & scat
- 7 Vehicle tracks
- 8 Road/pad dust, 9 Road/pad gravel

**Stability**

- 1 Stable
- 2 Subject to occasional disturbance
- 3 Subject to prolonged but slow disturbance such as solifluction
- 4 Annually disturbed
- 5 Disturbed more than once annually

**Exposure Scale (SCALAR)**

- 1 Protected from winds
- 2 Moderate exposure to winds
- 3 Exposed to winds
- 4 Very exposed to winds

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