

**Table 6. Legend for Prudhoe Bay environmental data.<sup>1</sup>**  
(Revised L. Druckenmiller 2014)

<b>SITE VARIABLES</b>	<b>Abbreviation (Bold) Units</b>
<b>Plot number</b>	<b>PLOTNUM</b>
<b>Plot location (code)</b>	<b>LOCATN</b>
	1) IBP site
	2) Putuligayuk River site
	3) Angel Pingo
	4) Kuparuk River dunes
	5) Coastal site
	6) Pad F site
	7) Drill site 2
<b>Temperature regime (scalar)</b>	<b>TEMPREG</b> 3-point subjective rating scale:
	1) Coastal, July mean < 4 degrees C
	2) Somewhat inland, July mean 4-7 degrees C
	3) Farther inland, July mean > 7 degrees C
<b>Moisture regime (scalar)</b>	<b>MOISREG</b> 5-point subjective rating scale:
	1) Xeric, little moisture near the surface, exposed sites
	2) Xeric-mesic, moist soils, less-exposed well-drained sites
	3) Mesic, moist to wet soils, moderately well drained sites
	4) Hydro-mesic, wet soil continually saturated
	5) Hydric, standing water all summer
<b>Snow regime (scalar)</b>	<b>SNOWREG</b> 5-point subjective rating scale:
	1) Very exposed site, very slight snow accumulation
	2) Slightly exposed, with less than average snow accumulation
	3) Average site, moderate snow accumulation
	4) Moderate snowbank area, accumulation probably less than 2 m
	5) Deep snowbank, more than 2 m of snow
<b>Cryoturbation regime (scalar)</b>	<b>CRYGREG</b> 4-point subjective scale:
	1) No surface evidence of frost-active soil
	2) Some evidence (exposed plant roots, bare soil, etc) of frost-active soil on less than 5 percent of the surface
	3) Much evidence of frost activity on 5-30 percent of the surface
	4) Considerable evidence on more than 30 percent of the surface
<b>Vegetation (code)</b>	<b>VEGTYPE</b> Walker and Webber (1980)
<b>Topographic feature (code)</b>	<b>TOPOFEA</b>
1) Top of high-centered polygon	9) Base of Pingo (level)
2) Side of Pingo	10) 10) Level creek bank
3) Flat upland	11) Sloping creek bank
4) Polygon basin,	12) Flat with aligned hummocks
5) Polygon rim	
6) Lake or pond margin	13) Frost scar
7) Drained thaw lake	14) Pingo top
8) Lake or pond	15) Bird mound

(Topographic Feature-continued)

- |                          |                              |
|--------------------------|------------------------------|
| 16) River terrace,       | 22) Polygon trough           |
| 17) Slumping river bluff | 23) Aligned hummock          |
| 18) Active sand dune     | 24) Gravel bar               |
| 19) Stable sand dune     | 25) Lowland with frost scars |
| 20) Coastal bluff        |                              |
| 21) Estuary or lagoon    |                              |

<b>Slope inclination (code)</b>	<b>SLOPE</b> Estimate: 0) 0-1 degrees, 1) 1-3 degrees, 2) 3-5 degrees, 3) > 5 degrees
<b>Mean hummock ht. (code)</b>	<b>HUMMOCK</b> 1) 1-3 cm, 2) 3-10 cm, 3) 10-20 cm, 4) 20 cm
<b>Slope aspect (code)</b>	<b>ASPECT</b> 0) Flat, 1) North, 2) East, 3) South, 4) West
<b>Bare soil cover</b>	<b>SOILCOV</b> (percent)
<b>Rock cover</b>	<b>ROCKCOV</b> (percent)
<b>Water cover</b>	<b>H2O COV</b> (percent)
<b>Depth of thaw</b>	<b>THAW77</b> Mean of 10 measurements, 15 August 1977 (cm)
<b>Water depth</b>	<b>H2O DEPTH</b> Mean of 10 measurements, 15 August 1977(cm)
<b>Marl surface cover</b>	<b>MARL</b> (percent)
<b>Crustose lichen cover</b>	<b>CLICCOV</b> (percent)
<b>Foliose &amp; fruticose lichen cover</b>	<b>FLICCOV</b> (percent)
<b>Bryophyte cover</b>	<b>BRYOCOV</b> (percent)
<b>Erect dead vegetation cover</b>	<b>ERECDED</b> (percent)
<b>Prostrate dead and litter cover</b>	<b>PROSDED</b> (percent)
<b>Plot size</b>	<b>PLOTSIZE</b> 1) 10 square meters, 2) 1 square meter, 3) undefined
<b>Distance to Sagavanirktok River</b>	<b>SAGDIS</b> (km)
<b>Distance to the coast (along the N75° E direction)</b>	<b>WDIST</b> (km)

Disturbance (frequency)

<b>Caribou</b>	<b>CARFECE</b> Caribou feces
<b>Brown lemming</b>	<b>CARGRAZ</b> Evidence of caribou grazing
<b>Collared lemming</b>	<b>BRWNLEM</b> Brown lemming sign (nest, runways or feces)
<b>Birds</b>	<b>COLLEM</b> Collared lemming sign (nest or feces)
	<b>MISBIRD</b> Miscellaneous bird sign (feathers, feces etc.)
<b>Fox</b>	<b>FOX</b> Fox sign (tracks, feces, bones, fur etc.)
<b>Ptarmigan</b>	<b>PTARMIG</b> Ptarmigan sign (feces or feathers)
<b>Goose</b>	<b>GOOSE</b> Goose sign (feces or feathers)
<b>Ground squirrel</b>	<b>SQRRL</b> Ground squirrel sign (den, feces, tracks etc.)
<b>Bear</b>	<b>BEAR</b> Bear sign (diggings in squirrel mounds)

Physical factors

Soil moisture	SMOIS77 15 August 1977 (percent)
Bulk density	BDEN77 15 August 1977 (gms/cubic cm)
Sand	SAND (percent)
Silt	SILT (percent)
Clay	CLAY (percent)

Physical factors (continued)

Field capacity	FLDCAP (percent at 1/3 bar)
Wilting point	WILTPT (percent at 15 bar)
Hygroscopic moisture	HYGMOIS (percent)
Available water	AVH20 (percent)
Water absorption	H20ABSN (percent)
Organic matter	ORGMAT (percent)

Chemical factors

Soil pH	PH
Ammonium NH4	Mass concentration (ppm)
Nitrate NO3	Mass concentration (ppm)
Carbonate CO3	Mass concentration (percent)
Phosphorus P	Mass concentration (ppm)
Potassium K	Mass concentration (ppm)
Calcium CA	Mass concentration (ppm)
Magnesium MG	Mass concentration (ppm)

<sup>1</sup>Walker, D. A. 1985. The vegetation and environmental gradients of the Prudhoe Bay region. U.S. Army Cold Regions Research and Engineering Laboratory, Hanover, N.H. CRREL Report No. 85-14. 239 pp.