

Table 1. Vegetation properties in each bioclimate subzone. ¹ Mean July temperatures based on Edlund (1996) and Matveyeva (1998). ² Sum of mean monthly temperatures greater than 0°C, modified from Young (1971). ³ Vertical and horizontal vegetation structure based on Chernov and Matveyeva (1997). ⁴ Underlined plant functional types are dominant. Codes for plant functional types: b - barren; c - cryptogam; cf - cushion or rosette forb; deds - deciduous erect dwarf shrub; dls - deciduous low shrub; dpds - deciduous prostrate dwarf shrub; g - grass; ehds - evergreen hemiprostrate dwarf shrub; nb - nonsphagnoid bryophyte; neds - nondeciduous erect dwarf shrub; npds - nondeciduous prostrate dwarf shrub; ns - nontussock sedge; of - other forb; ol - other lichen; r - rush; rl - reindeer lichen; sb - sphagnoid bryophyte; ts - tussock sedge. Underlined codes are dominant. ⁵ Based on Bazilevich, Tishkov and Vilcheck (1997), aboveground + belowground, live + dead. ⁶ Total phytomass and annual production based on Bazilevich, Tishkov and Vilcheck (1997), aboveground + belowground. ⁷ Number of vascular species in local floras based mainly on Young (1971). Modified from CAVM Team (2003).

Subzone	Mean July Temp ¹ (°C)	Summer warmth index ² (Thawing °C mo)	Vertical structure of plant cover ³	Horizontal structure of plant cover ³	Major plant functional types ⁴	Dominant vegetation unit (see Detailed Vegetation Descriptions for species)	Total phytomass ⁵ (t ha ⁻¹)	Net annual production ⁶ (t ha ⁻¹ yr ⁻¹)	Number of vascular plant species in local floras ⁷
A	1-3	<6	Mostly barren. In favorable microsites, 1 lichen or moss layer <2 cm tall, very scattered vascular plants hardly exceeding the moss layer.	<5% cover of vascular plants, up to 40% cover by mosses and lichens.	<u>b</u> , <u>g</u> , <u>r</u> , <u>cf</u> , <u>of</u> , <u>ol</u> , <u>c</u>	Units 1 and 2	<3	<0.3	<50
B	4-5	6-9	2 layers, moss layer 1-3 cm thick and herbaceous layer, 5-10 cm tall, prostrate dwarf shrubs <5 cm tall.	5-25% cover of vascular plants, up to 60% cover of cryptogams.	<u>npds</u> , <u>dpds</u> , <u>b</u> , <u>ns</u> , <u>cf</u> , <u>of</u> , <u>ol</u>	Unit 4	5-20	0.2-1.9	50-100
C	6-7	9-12	2 layers, moss layer 3-5 cm thick and herbaceous layer 5-10 cm tall, prostrate and hemi-prostrate dwarf shrubs <15 cm tall.	5-50% cover of vascular plants, open patchy vegetation.	<u>npds</u> , <u>dpds</u> , <u>b</u> , <u>ns</u> , <u>cf</u> , <u>of</u> , <u>ol</u> , <u>ehds</u> * * in acidic areas	Unit 5	10-30	1.7-2.9	75-150
D	8-9	12-20	2 layers, moss layer 5-10 cm thick and herbaceous and dwarf-shrub layer 10-40 cm tall.	50-80% cover of vascular plants, interrupted closed vegetation.	<u>ns</u> , <u>nb</u> , <u>npds</u> , <u>dpds</u> , <u>deds</u> , <u>neds</u> , <u>cf</u> , <u>of</u> , <u>ol</u> , <u>b</u>	Units 7 and 9	30-60	2.7-3.9	125-250
E	10-12	20-35	2-3 layers, moss layer 5-10 cm thick, herbaceous/ dwarf-shrub layer 20-50 cm tall, sometimes with low-shrub layer to 80 cm.	80-100% cover of vascular plants, closed canopy.	<u>dls</u> , <u>ts</u> *, <u>ns</u> , <u>deds</u> , <u>neds</u> , <u>sb</u> , <u>nb</u> , <u>rl</u> , <u>ol</u> *in Beringia	Units 8 and 10	50-100	3.3-4.3	200 to 500