

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 14/02/2020)

AISHIHIK (CANADA)

Altitude: 968 m.

Latitude: 61°39'N Longitude: 137°29'W

Temperature observation period.: 1985-1994 (10)

Rainfall observation period....: 1984-1994 (11)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	-21.11	-15.00	-27.22	7.78	-52.78	14.2	0.00
Feb.	-17.50	-10.56	-24.44	7.22	-56.67	8.9	0.00
Mar.	-11.39	-3.33	-19.44	7.78	-46.11	12.4	0.00
Apr.	-4.17	2.22	-10.56	10.00	-37.78	12.2	0.00
May.	5.00	11.67	-1.67	28.33	-14.44	24.4	67.16
Jun.	10.27	17.22	3.33	30.56	-5.56	40.6	117.88
Jul.	12.23	18.89	5.56	30.00	-3.33	44.7	130.63
Aug.	10.00	16.67	3.33	26.11	-8.89	32.0	98.08
Sep.	5.28	11.11	-0.56	22.78	-20.00	21.6	49.37
Oct.	-2.50	2.78	-7.78	15.00	-23.33	14.7	0.00
Nov.	-13.33	-8.33	-18.33	9.44	-47.22	13.5	0.00
Dec.	-19.45	-13.89	-25.00	5.56	-50.56	11.4	0.00
Year	-3.89	2.45	-10.23	16.71	-30.56	251	463.12

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	-461
Compensated thermicity index.....(Itc):	-208
Simple continentality index.....(Ic):	33.3
Diurnality index.....(Id):	16.1
Annual ombrothermic index.....(Io):	3.82
Monthly estival ombrothermic index.....(Ios1):	3.65
Bimonthly estival ombrothermic index.....(Ios2):	3.79
Threemonthly estival ombrothermic index.....(Ios3):	3.61
Fourmonthly estival ombrothermic index.....(Ios4):	3.78
Annual ombro-evaporation index.....(Ioe):	0.54
Annual positive temperature.....(Tp):	428
Annual negative temperature.....(Tn):	895
Estival temperature.....(Ts):	325
Positive precipitation.....(Pp):	163

N. of Months	P>4T	P:2T-4T	PT-2T	P<T	T<0
	2	3	0	0	7

Latitudinal Belt...: High Subtemperate

Continentality.....: Continental - Low Eucontinental

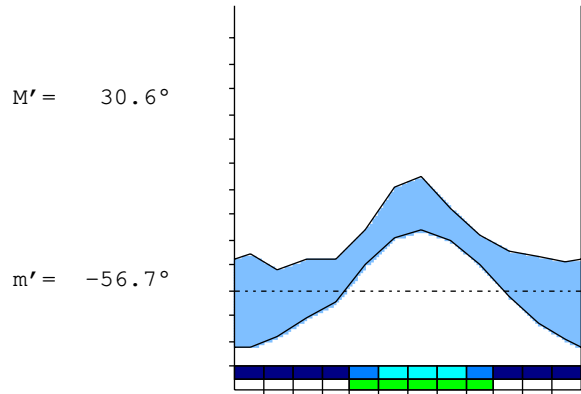
Bioclimate.....: BOREAL CONTINENTAL

Bioclimatic Belt...: UPPER OROBOREAL LOW SUBHUMID

AISHIHIK (CANADA)

968 m

P= 251 61° 39'N 137° 29'W 10/11 y.
 T= -3.9 ° Ic= 33.3 Tp= 428 Tn= 895
 m= -27.2 ° M= -15.0 ° Itc= -208 Io= 3.8



BOREAL CONTINENTAL
 UPPER OROBOREAL LOW SUBHUMID

WATER INDEX CARD AISHIHIK (CANADA)
 Altitude: 968 m. Latitude: 61° 39'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	-21.1	0	14	14	54	0	0	0	0	*
Feb.	-17.5	0	9	9	63	0	0	0	0	*
Mar.	-11.4	0	12	12	75	0	0	0	0	*
Apr.	-4.2	0	12	12	87	0	0	0	0	*
May.	5.0	67	24	-43	45	67	0	0	0	-0.6
Jun.	10.3	118	41	-45	0	85	33	0	0	-0.6
Jul.	12.2	131	45	0	0	45	86	0	0	-0.6
Aug.	10.0	98	32	0	0	32	66	0	0	-0.6
Sep.	5.3	49	22	0	0	22	28	0	0	-0.5
Oct.	-2.5	0	15	15	15	0	0	0	0	*
Nov.	-13.3	0	14	14	28	0	0	0	0	*
Dec.	-19.5	0	11	11	40	0	0	0	0	*
Year	-3.9	463	251	*	*	251	213	0	0	*

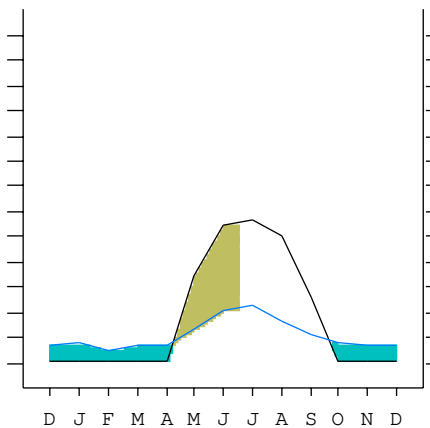
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

AISHIHIK (CANADA)

61°39'N 137°29'W 968 m 10/11 y.

T= -3.9 Ic= 33.3 BOREAL CONTINENTAL
 m= -27.2 Tp= 428 UPPER OROBOREAL
 M= -15.0 Tn= 895 LOW SUBHUMID
 M' = 30.6 Itc= -208
 m' = -56.7 Io= 3.8
 P= 251 mm ———
 PE= 463 mm ———

Imbibing	20 Sep.
Saturation	7 Apr.
Reserve Use	18 Jun.
Deficit	



AISHIHIK (CANADA)

Latitude: 61°39'N Longitude: 137°29'W Altitude: 968 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continentality Index [C3a]
 + Type: C. Continental
 + Subtype: 3. Eucontinental
 + Variant: a. Low

Thermic types [B2.D8]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 2. High Subtemperate
 + Thermic type: D. Gelid
 + Thermic subtype: 8. Ultramicrothermic

Bioclimatic types [D3.5a.6b]
 + Macrobioclimate: D. BOREAL
 + Bioclimate: 3. CONTINENTAL
 + Bioclimatic variant .:
 + Thermic type.....: 5. OROBOREAL
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : b. LOW

Bioclimatic ClassificationBoco.Obo.Shu.Euc

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 178
 Coldest semester of the year.....(Psw): 73
 Warmest four months period of the year.....(Pcm1): 139
 Following warmest four months period.....(Pcm2): 54
 Positive precipitation dryest 3 months.....(Ppd): 0
 Positive precipitation dryest 2 months.....(Ppd2): 0
 Positive precipitation dryest 1 month.....(Ppd1): 0
 Positive precipitation warmest 3 months.....(Pps): 117
 Positive precipitation warmest 2 months.....(Pps2): 85
 Positive precipitation warmest 1 month.....(Pps1): 45
 Positive precipitation coldest 3 months.....(Ppw): 0
 Positive precipitation coldest 2 months.....(Ppw2): 0
 Positive precipitation coldest 1 month.....(Ppw1): 0

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	34	49	117	49

Seasonal rainfall rhythms: S > P > F > W

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 12.2
 Average coldest month [T].....(Tmin): -21.1
 Maximum temp. warmest month [M].....(Tmax): 18.9
 Minimum temp. coldest month [m].....(Tmin): -27.2
 Absolute Max.temp. warmest month [M'].....(Tamax): 30.6
 Absolute Min.temp. coldest month [m'].....(Tamin): -56.7
 First warmest contrasted month [M].....(Tcmax): -3.3 (3)
 First coldest contrasted month [m].....(Tcmin): -19.4 (3)
 Estival temperature.....(Ts): 325
 Positive temperature dryest 3 months.....(Tpd): 0
 Positive temperature dryest 2 months.....(Tpd2): 0
 Positive temperature dryest 1 month.....(Tpd1): 0
 Positive temperature warmest 3 months.....(Tps): 325
 Positive temperature warmest 2 months.....(Tps2): 225
 Positive temperature warmest 1 month.....(Tps1): 122
 Positive temperature coldest 3 months.....(Tpw): 0
 Positive temperature coldest 2 months.....(Tpw2): 0
 Positive temperature coldest 1 month.....(Tpw1): 0

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SEASONAL PARAMETERS

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Warmest semester... (Sms)					o	o	o	o	o	o		
Dryest semester... (Smd)	o	o	o	o							o	o
Warmest 4 months... (Cm1)						o	o	o	o			
Dryest 4 months... (Cmd)	o	o	o									o
Vegetation Activity (Pav)					o	o	o	o	o			
Ultragelid... [M' <= 0] (Pf)												
Hypergelid... [M <= 0] (Pf)	o	o	o								o	o
Gelid... [T <= 0] (Pf)	o	o	o	o						o	o	o
Subgelid... [m <= 0] (Pf)	o	o	o	o	o				o	o	o	o
Pregelid... [m' <= 0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Agelid... [m' > 0] (Pf)												
HiperAgelid... [all > 0] (Pf)												

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OMBROTHERMIC PARAMETERS

Annual aridity index. [PE/P]..... (Iar): 1.85
 Mediterranean index of July. [PE/P]..... (Im1): 2.92
 Mediterranean index of July & August..... (Im2): 2.98
 Mediterranean index of June, July & August.... (Im3): 2.95

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp (x10)	*	*	*	*	*	244	406	447	320	216	*	*
Tp	*	*	*	*	*	50	103	122	100	53	*	*
Io (Iom)	*	*	*	*	*	4.88	3.95	3.65	3.20	4.09	*	*
Seasons	Winter			Spring			Summer			Autumn		
Pp (x10) / Tp	* / *			* / *			1173 / 325			* / *		
Io (Iot)	*			*			3.609			*		
Semesters	December-May						June-November					
Pp (x10) / Tp	* / *						* / *					
Io (Iosm)	*						*					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 1633/428=3.82 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	*	*	*	*	*	244	406	447	320	216	*	*
Tp [T*10]	*	*	*	*	*	50	103	122	100	53	*	*
Iom [Pp/Tp]	!!	!!	!!	!!	!!	488	395	365	320	409	!!	!!
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	* / *			* / *			1173 / 325			* / *		
Iot [Pp/Tp]	**			**			361			**		
Avs E [Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 33.34
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 44.00
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 45.71
 + Subcontinental (40<CI<60)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.55
 + Subcontinental (1.1<CI<1.7)
 Rainfall Index of Lang (1925) [R=P/T]: -64.44
 +
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 41.01
 + Humid (60>Ia>30)
 I of Emberger (1930) [Q=100*P/(Tmmax²-Tmmin²)]: -65.24
 +
 I of Dantin & Revenga (1940) [DR=100*T/P]: -1.55
 +
 Aridity Index of UNEP [I=P/PE]: 0.54
 + Subhumid - dry (0.65>I>0.5)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 7.97
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: B. Cold and temperate cold
 + Region: 11. Psicroaxeric (Axeric cold)
 + Thermic type: 8. Ultramicrothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.10	0.06	0.09	0.09	0.14	0.20	0.21	0.16	0.12	0.11	0.10	0.08
T-E ratio	0.00	0.00	0.00	0.00	2.25	4.62	5.50	4.50	2.38	0.00	0.00	0.00
Precipitation-effectiveness: 14.67						Temperature-efficiency: 19.25						
Moisture Index [MI=100*(P-PE)/PE]: -45.89 + D.Semiarid (-66.7<MI<-33.3)												
Index of dryness [DI=100*d/PE]: 45.88 + Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]: 0.00 + No surplus (0<HI<10)												
Potential Evapotranspiration PE: 463.12 + Second microthermic (427<PE<570)												

