

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

Prof.Dr. Salvador Rivas-Martinez

(Adapted to Synoptical Table 30/08/2017)

WILKES (ANTARCTICA TERR.)

Altitude: 9 m.

Latitude: 66°16'S Longitude: 110°31'E

Temperature observation period.: 1987-1994 (8)

Rainfall observation period....: 1987-1994 (8)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	-0.56	1.11	-2.22	7.78	-7.78	13.7	0.00
Feb.	-2.50	-0.56	-4.44	5.56	-12.22	9.9	0.00
Mar.	-6.67	-4.44	-8.89	2.78	-18.33	42.7	0.00
Apr.	-10.56	-8.33	-12.78	1.67	-31.11	27.7	0.00
May.	-13.89	-11.11	-16.67	3.89	-33.33	34.3	0.00
Jun.	-16.11	-13.33	-18.89	0.00	-31.67	29.7	0.00
Jul.	-16.39	-13.33	-19.44	1.11	-37.22	32.5	0.00
Aug.	-15.27	-12.22	-18.33	-0.56	-34.44	21.1	0.00
Sep.	-15.00	-12.22	-17.78	-1.11	-34.44	38.6	0.00
Oct.	-11.67	-8.89	-14.44	-1.11	-28.33	29.2	0.00
Nov.	-5.56	-3.33	-7.78	4.44	-21.11	21.3	0.00
Dec.	-1.39	0.56	-3.33	5.56	-14.44	7.9	0.00
Year	-9.63	-7.17	-12.08	2.50	-25.37	309	0.00

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	-424
Compensated thermicity index.....(Itc):	-424
Simple continentality index.....(Ic):	15.8
Diurnality index.....(Id):	6.1
Annual ombrothermic index.....(Io):	No
Monthly estival ombrothermic index.....(Ios1):	No
Bimonthly estival ombrothermic index.....(Ios2):	No
Threemonthly estival ombrothermic index.....(Ios3):	No
Fourmonthly estival ombrothermic index.....(Ios4):	No
Annual ombro-evaporation index.....(Ioe):	No
Annual positive temperature.....(Tp):	0
Annual negative temperature.....(Tn):	1156
Estival temperature.....(Ts):	0
Positive precipitation.....(Pp):	0

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	0	0	0	0	12

Latitudinal Belt...: Low polar

Continentalty.....: Oceanic - Low Euroceanic

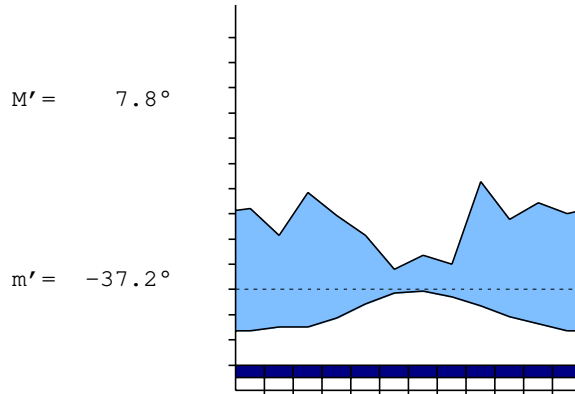
Bioclimate.....: Polar Suprapolar

Bioclimatic Belt...: Lower Hypogelid Low-Snowy

WILKES (ANTARCTICA TERR.)

9 m

P= 309 66° 16'S 110° 31'E 8/8 y.
 T= -9.6° Ic= 15.8 Tp= 0 Tn= 1156
 m= -19.4° M= -13.3° Itc= -424 Io=9999.9



Polar Suprapolar
 Lower Hypogelid Low-Snowy

WATER INDEX CARD WILKES (ANTARCTICA TERR.)
 Altitude: 9 m. Latitude: 66° 16'S

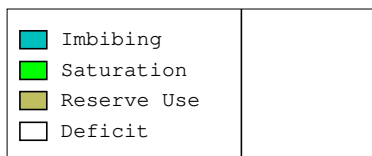
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	-16.4	0	33	0	100	0	0	33	31	*
Aug.	-15.3	0	21	0	100	0	0	21	26	*
Sep.	-15.0	0	39	0	100	0	0	39	32	*
Oct.	-11.7	0	29	0	100	0	0	29	31	*
Nov.	-5.6	0	21	0	100	0	0	21	26	*
Dec.	-1.4	0	8	0	100	0	0	8	17	*
Jan.	-0.6	0	14	0	100	0	0	14	15	*
Feb.	-2.5	0	10	0	100	0	0	10	13	*
Mar.	-6.7	0	43	0	100	0	0	43	28	*
Apr.	-10.6	0	28	0	100	0	0	28	28	*
May.	-13.9	0	34	0	100	0	0	34	31	*
Jun.	-16.1	0	30	0	100	0	0	30	30	*
Year	-9.6	0	309	*	*	0	0	309	309	*

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

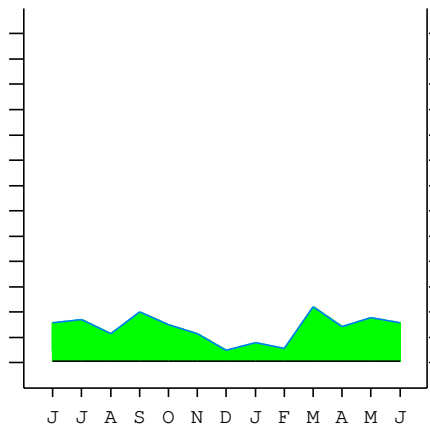
WILKES (ANTARCTICA TERR.)

66°16'S 110°31'E 9 m 8/8 y.

T= -9.6 Ic= 15.8 Polar Suprapolar
 m= -19.4 Tp= 0 Lower Hypogelid
 M= -13.3 Tn= 1156 Low-Snowy
 M' = 7.8 Itc= -424
 m' = -37.2 Io=9999.9
 P= 309 mm ———
 PE= 0 mm ———



All over the year,
 there is no hydric deficit



WILKES (ANTARCTICA TERR.)

Latitude: 66°16'S Longitude: 110°31'E Altitude: 9 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [B2b]
 + Type: B. Oceanic
 + Subtype: 2. Euoceanic
 + Variant: b. Low

Thermic types [C2.D9]
 + Latitudinal zone: C. Cold
 + Latitudinal belt: 2. Low polar
 + Thermic type: D. Gelid
 + Thermic subtype: 9. Gelid

Bioclimatic types [E2.5.3]
 + Macrobioclimate: E. Polar
 + Bioclimate: 2. Suprapolar
 + Bioclimatic variant ..:
 + Thermic type.....: 5. Lower Hypogelid
 + Thermic subtype.....:
 + Ombrothermic type ...: 3. Low-Snowy
 + Ombrothermic subtype :
 Bioclimatic Classification

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 123
 Coldest semester of the year.....(Psw): 185
 Warmest four months period of the year.....(Pcm1): 53
 Following warmest four months period.....(Pcm2): 134
 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): 0
 Positive precipitation warmest 2 months.....(Pps2): 0
 Positive precipitation warmest 1 month.....(Pps1): 0
 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	83	89	31	104

Seasonal rainfall rhythms: F > P > W > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): -0.6
 Average coldest month [T].....(Tmin): -16.4
 Maximum temp. warmest month [M].....(Tmmax): 1.1
 Minimum temp. coldest month [m].....(Tmmin): -19.4
 Absolute Max.temp. warmest month [M'].....(Tamax): 7.8
 Absolute Min.temp. coldest month [m'].....(Tamin): -37.2
 First warmest contrasted month [M].....(Tcmax): -13.3 (7)
 First coldest contrasted month [m].....(Tcmin): -19.4 (7)
 Estival temperature.....(Ts): 0
 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): 0
 Positive temperature warmest 2 months.....(Tps2): 0
 Positive temperature warmest 1 month.....(Tps1): 0
 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)												
Ultragelid...[M' <=0] (Pf)						o		o	o	o		
Hypergelid...[M <=0] (Pf)		o	o	o	o	o	o	o	o	o	o	
Gelid.....[T <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Subgelid.....[m <=0] (Pf)	o	o	o	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): 0.00
 Mediterranean index of January.....(Im1): 0.00
 Mediterranean index of January & February.....(Im2): 0.00
 Mediterranean index of December to February...(Im3): 0.00

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	*	*	*	*	*	*	*	*	*	*	*	*
Tp	*	*	*	*	*	*	*	*	*	*	*	*
Io (Iom)	*	*	*	*	*	*	*	*	*	*	*	*
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	*/*			*/*			*/*			*/*		
Io (Iot)	*			*			*			*		
Semesters	December-May						June-November					
Pp(x10)/Tp	*/*						*/*					
Io (Iosm)	*						*					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 0/0=9999.90 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	*	*	*	*	*	*	*	*	*	*	*	*
Tp [T*10]	*	*	*	*	*	*	*	*	*	*	*	*
Iom [Pp/Tp]	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!	!!
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	* / *			* / *			* / *			* / *		
Iot [Pp/Tp]	**			**			**			**		
Avs E[Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 15.83
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 9.00
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 13.70
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.69
 + Oceanic (0.6<CI<1.1)
 Rainfall Index of Lang (1925) [R=P/T]: -32.04
 +
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 835.94
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: -81.93
 +
 I of Dantin & Revenga (1940) [DR=100*T/P]: -3.12
 +
 Aridity Index of UNEP [I=P/PE]: 0.00
 + Hyperarid (0.05>Im)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 5.91
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: C. Gelid
 + Region: 12. Criomeric (Gelid)
 + Thermic type: 9. Gelid

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.09	0.07	0.36	0.22	0.28	0.24	0.26	0.16	0.32	0.23	0.16	0.05
T-E ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Precipitation-effectiveness: 24.49						Temperature-efficiency: 0.00						
Moisture Index [MI=100*(P-PE)/PE]	0.00											
+ C2.Subhumid humid (0<MI<20)												
Index of dryness [DI=100*d/PE]	0.00											
+ No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]	0.00											
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE	0.00											
+ Ice climate (PE<142)												

