

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

STONINGTON ISLAND (ANTARCTICA TERR.) Altitude: 9 m.

Latitude: 68°11'S Longitude: 67°1'W
 Temperature observation period.: 1991-1994 (4)
 Rainfall observation period....: 1991-1994 (4)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	0.00	2.78	-2.78	6.11	-11.67	10.2	0.00
Feb.	-1.39	1.11	-3.89	7.22	-11.11	15.2	0.00
Mar.	-5.00	-2.22	-7.78	7.78	-35.00	25.4	0.00
Apr.	-7.22	-4.44	-10.00	6.67	-26.67	25.4	0.00
May.	-10.00	-6.11	-13.89	3.89	-36.11	43.2	0.00
Jun.	-12.50	-8.33	-16.67	6.67	-37.22	27.9	0.00
Jul.	-11.95	-7.78	-16.11	4.44	-35.56	33.0	0.00
Aug.	-13.89	-8.89	-18.89	4.44	-37.22	25.4	0.00
Sep.	-12.22	-8.33	-16.11	5.00	-39.44	40.6	0.00
Oct.	-8.61	-4.44	-12.78	5.56	-28.89	43.2	0.00
Nov.	-5.84	-2.78	-8.89	8.33	-20.00	22.9	0.00
Dec.	-0.55	2.22	-3.33	6.67	-12.78	5.1	0.00
Year	-7.43	-3.93	-10.93	6.07	-27.64	318	0.00

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	-352
Compensated thermicity index.....(Itc):	-352
Simple continentality index.....(Ic):	13.9
Diurnality index.....(Id):	10.0
Annual ombrothermic index.....(Io):	No
Monthly estival ombrothermic index.....(Ios1):	No
Bimonthly estival ombrothermic index.....(Ios2):	No
Three monthly estival ombrothermic index.....(Ios3):	No
Four monthly estival ombrothermic index.....(Ios4):	No
Annual ombro-evaporation index.....(Ioe):	No
Annual positive temperature.....(Tp):	0
Annual negative temperature.....(Tn):	892
Estival temperature.....(Ts):	0
Positive precipitation.....(Pp):	0

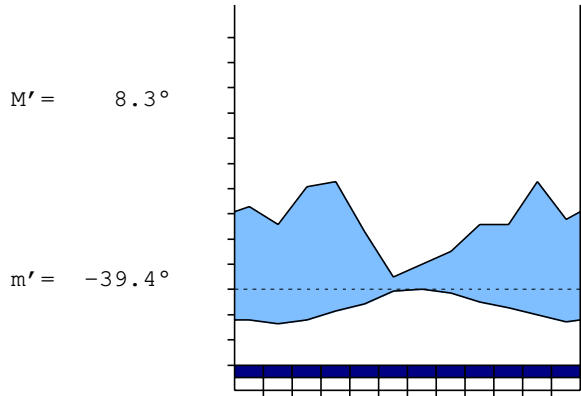
N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	1	0	0	0	11

Latitudinal Belt...: Low polar
 Continentality.....: Oceanic - Low Semihyperoceanic
 Bioclimate.....: Polar Suprapolar
 Bioclimatic Belt...: Lower Hypogelid Low-Snowy

STONINGTON ISLAND (ANTARCTICA TERR.)

9 m

P= 318 68° 11'S 67° 1'W 4/4 y.
 T= -7.4° Ic= 13.9 Tp= 0 Tn= 892
 m= -18.9° M= -8.9° Itc= -352 Io=9999.9



Polar Suprapolar
 Lower Hypogelid Low-Snowy

WATER INDEX CARD STONINGTON ISLAND (ANTARCTICA TERR.)
 Altitude: 9 m. Latitude: 68° 11'S

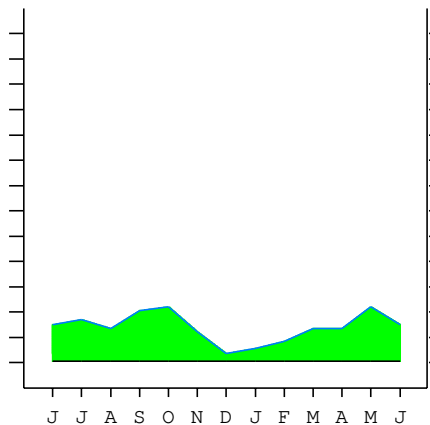
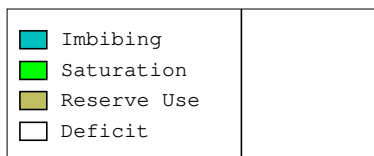
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	-11.9	0	33	0	100	0	0	33	32	*
Aug.	-13.9	0	25	0	100	0	0	25	29	*
Sep.	-12.2	0	41	0	100	0	0	41	35	*
Oct.	-8.6	0	43	0	100	0	0	43	39	*
Nov.	-5.8	0	23	0	100	0	0	23	31	*
Dec.	-0.6	0	5	0	100	0	0	5	18	*
Jan.	0.0	0	10	0	100	0	0	10	14	*
Feb.	-1.4	0	15	0	100	0	0	15	15	*
Mar.	-5.0	0	25	0	100	0	0	25	20	*
Apr.	-7.2	0	25	0	100	0	0	25	23	*
May.	-10.0	0	43	0	100	0	0	43	33	*
Jun.	-12.5	0	28	0	100	0	0	28	30	*
Year	-7.4	0	318	*	*	0	0	317	317	*

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

STONINGTON ISLAND (ANTARCTICA TERR.)

68°11'S 67°1'W 9 m 4/4 y.

T= -7.4 Ic= 13.9 Polar Suprapolar
 m= -18.9 Tp= 0 Lower Hypogelid
 M= -8.9 Tn= 892 Low-Snowy
 M' = 8.3 Itc= -352
 m' = -39.4 Io=9999.9
 P= 318 mm ———
 PE= 0 mm ———



All over the year,
 there is no hydric deficit

STONINGTON ISLAND (ANTARCTICA TERR.)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [B1b]
 + Type: B. Oceanic
 + Subtype: 1. Semihyperoceanic
 + 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): 104
 Coldest semester of the year.....(Psw): 213
 Warmest four months period of the year.....(Pcm1): 56
 Following warmest four months period.....(Pcm2): 130
 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	86	106	30	94

Seasonal rainfall rhythms: P > F > W > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 0.0
 Average coldest month [T].....(Tmin): -13.9
 Maximum temp. warmest month [M].....(Tmmax): 2.8
 Minimum temp. coldest month [m].....(Tmmin): -18.9
 Absolute Max.temp. warmest month [M'].....(Tamax): 8.3
 Absolute Min.temp. coldest month [m'].....(Tamin): -39.4
 First warmest contrasted month [M].....(Tcmax): -8.9 (8)
 First coldest contrasted month [m].....(Tcmin): -18.9 (8)
 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)												
Hypergelid...[M <=0] (Pf)			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): 13.89
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 5.03
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 10.12
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.59
 + Hyperoceanic (0<CI<0.6)
 Rainfall Index of Lang (1925) [R=P/T]: -42.73
 +
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 123.58
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: -90.95
 +
 I of Dantin & Revenga (1940) [DR=100*T/P]: -2.34
 +
 Aridity Index of UNEP [I=P/PE]: 0.00
 + Hyperarid (0.05>Im)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 5.88
 + 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

Thorntwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.07	0.11	0.20	0.20	0.36	0.22	0.27	0.20	0.34	0.36	0.18	0.03
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: 25.29						Temperature-efficiency: 0.00						
Moisture Index [MI=100*(P-PE)/PE]: 0.00											0.00	
+ C2.Subhumid humid (0<MI<20)												
Index of dryness [DI=100*d/PE]: 0.00											0.00	
+ No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]: 0.00											0.00	
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE: 0.00											0.00	
+ Ice climate (PE<142)												

