

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

POINT PERPENDICULAR (AUSTRALIA)

Altitude: 85 m.

Latitude: 35°5'S Longitude: 150°48'E

Temperature observation period.: 1907-1990 (84)

Rainfall observation period....: 1899-1990 (92)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	20.54	23.85	17.35	0.00	0.00	99.0	107.56
Feb.	20.84	24.05	17.55	0.00	0.00	99.7	94.10
Mar.	19.97	22.50	17.30	0.00	0.00	127.9	88.38
Apr.	17.74	21.60	13.80	0.00	0.00	136.4	64.13
May.	15.16	19.10	11.30	0.00	0.00	129.7	46.53
Jun.	13.03	15.23	10.68	0.00	0.00	132.2	33.17
Jul.	12.07	14.98	9.13	0.00	0.00	107.4	30.91
Aug.	12.80	16.05	9.55	0.00	0.00	89.2	36.90
Sep.	14.46	18.68	10.23	0.00	0.00	79.2	48.26
Oct.	16.29	19.55	13.05	0.00	0.00	88.7	66.72
Nov.	17.83	22.73	12.98	0.00	0.00	82.2	80.51
Dec.	19.49	22.85	16.35	0.00	0.00	86.1	100.01
Year	16.68	20.10	13.27	0.00	0.00	1258	797.17

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	408
Compensated thermicity index.....(Itc):	408
Simple continentality index.....(Ic):	8.8
Diurnality index.....(Id):	9.8
Annual ombrothermic index.....(Io):	6.28
Monthly estival ombrothermic index.....(Ios1):	4.42
Bimonthly estival ombrothermic index.....(Ios2):	4.80
Threemonthly estival ombrothermic index.....(Ios3):	4.68
Fourmonthly estival ombrothermic index.....(Ios4):	4.66
Annual ombro-evaporation index.....(Ioe):	1.01
Annual positive temperature.....(Tp):	2002
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	609
Positive precipitation.....(Pp):	1258

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

Latitudinal Belt...: Subtropical

Continentality.....: Hyperoceanic - High Subhyperoceanic

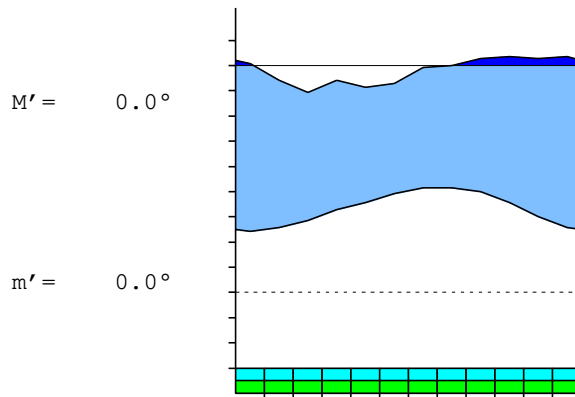
Bioclimate.....: TEMPERATE HYPEROCEANIC

Bioclimatic Belt...: LOW THERMOTEMPERATE LOW HUMID

POINT PERPENDICULAR (AUSTRALIA)

85 m

P= 1258 35° 5'S 150° 48'E 84/92 y.
 T= 16.7° Ic= 8.8 Tp= 2002 Tn= 0
 m= 9.1° M= 15.0° Itc= 408 Io= 6.3



TEMPERATE HYPEROCEANIC
 LOW THERMOTEMPERATE LOW HUMID

WATER INDEX CARD POINT PERPENDICULAR (AUSTRALIA)
 Altitude: 85 m. Latitude: 35° 5'S

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	12.1	31	107	0	100	31	0	77	79	2.4
Aug.	12.8	37	89	0	100	37	0	52	66	1.4
Sep.	14.5	48	79	0	100	48	0	31	48	0.6
Oct.	16.3	67	89	0	100	67	0	22	35	0.3
Nov.	17.8	81	82	0	100	81	0	2	18	0.0
Dec.	19.5	100	86	-14	86	100	0	0	9	-0.1
Jan.	20.5	108	99	-9	78	108	0	0	5	0.0
Feb.	20.8	94	100	6	83	94	0	0	2	0.0
Mar.	20.0	88	128	17	100	88	0	23	13	0.4
Apr.	17.7	64	136	0	100	64	0	72	42	1.1
May.	15.2	47	130	0	100	47	0	83	63	1.7
Jun.	13.0	33	132	0	100	33	0	99	81	2.9
Year	16.7	797	1258	*	*	797	0	461	461	*

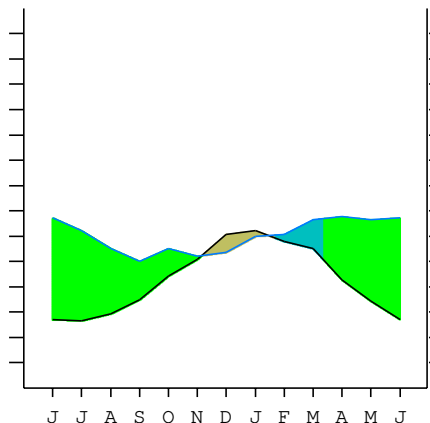
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

POINT PERPENDICULAR (AUSTRALIA)

35°5'S 150°48'E 85 m 84/92 y.

T= 16.7 Ic= 8.8 TEMPERATE HYPEROCEANIC
 m= 9.1 Tp= 2002 LOW THERMOTEMPERATE
 M= 15.0 Tn= 0 LOW HUMID
 M' = 0.0 Itc= 408
 m' = 0.0 Io= 6.3
 P= 1258 mm ———
 PE= 797 mm ———

Imbibing	19 Jan.
Saturation	13 Mar.
Reserve Use	4 Nov.
Deficit	



POINT PERPENDICULAR (AUSTRALIA)

Latitude: 35°5'S Longitude: 150°48'E Altitude: 85 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A3a]
 + Type: A. Hyperoceanic
 + Subtype: 3. Subhyperoceanic
 + Variant: a. High
 Thermic types [B1.A3]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 1. Subtropical
 + Thermic type: A. Warm
 + Thermic subtype: 3. Subwarm
 Bioclimatic types [C4.2b.7b]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 4. HYPEROCEANIC
 + Bioclimatic variant ..:
 + Thermic type.....: 2. THERMOTEMPERATE
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 7. HUMID
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: Texe.Tte.Hum

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 631
 Coldest semester of the year.....(Psw): 626
 Warmest four months period of the year.....(Pcm1): 413
 Following warmest four months period.....(Pcm2): 506
 Positive precipitation dryest 3 months.....(Ppd): 250
 Positive precipitation dryest 2 months.....(Ppd2): 168
 Positive precipitation dryest 1 month.....(Ppd1): 79
 Positive precipitation warmest 3 months.....(Pps): 327
 Positive precipitation warmest 2 months.....(Pps2): 199
 Positive precipitation warmest 1 month.....(Pps1): 100
 Positive precipitation coldest 3 months.....(Ppw): 329
 Positive precipitation coldest 2 months.....(Ppw2): 197
 Positive precipitation coldest 1 month.....(Ppw1): 107

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	328	250	284	394

Seasonal rainfall rhythms: F > W > S > P

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 20.8
 Average coldest month [T].....(Tmin): 12.1
 Maximum temp. warmest month [M].....(Tmmax): 24.0
 Minimum temp. coldest month [m].....(Tmmin): 9.1
 Absolute Max.temp. warmest month [M'].....(Tamax): 0.0
 Absolute Min.temp. coldest month [m'].....(Tamin): 0.0
 First warmest contrasted month [M].....(Tcmax): 22.7 (11)
 First coldest contrasted month [m].....(Tcmin): 13.0 (11)
 Estival temperature.....(Ts): 609
 Positive temperature dryest 3 months.....(Tpd): 486
 Positive temperature dryest 2 months.....(Tpd2): 308
 Positive temperature dryest 1 month.....(Tpd1): 145
 Positive temperature warmest 3 months.....(Tps): 614
 Positive temperature warmest 2 months.....(Tps2): 414
 Positive temperature warmest 1 month.....(Tps1): 208
 Positive temperature coldest 3 months.....(Tpw): 379
 Positive temperature coldest 2 months.....(Tpw2): 249
 Positive temperature coldest 1 month.....(Tpw1): 121

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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	o	o	o	o	o	o	o
Ultragelid...[M' <=0] (Pf)												
Hypergelid...[M <=0] (Pf)												
Gelid.....[T <=0] (Pf)												
Subgelid.....[m <=0] (Pf)												
Pregelid.....[m' <=0] (Pf)												
Agelid.....[m' > 0] (Pf)												
HiperAgelid..[all>0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.63
 Mediterranean index of January.....(Im1): 1.09
 Mediterranean index of January & February.....(Im2): 1.01
 Mediterranean index of December to February...(Im3): 1.06

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	861	990	997	1279	1364	1297	1322	1074	892	792	887	822
Tp	195	205	208	200	177	152	130	121	128	145	163	178
Io (Iom)	4.42	4.82	4.79	6.41	7.69	8.55	10.1	8.90	6.97	5.48	5.45	4.61
Seasons	Summer			Autumn			Winter		Spring			
Pp(x10)/Tp	2849 / 609			3940 / 529			3288 / 379		2502 / 486			
Io (Iot)	4.680			7.453			8.676		5.151			
Semesters	December-May						June-November					
Pp(x10)/Tp	6789 / 1137						5790 / 865					
Io (Iosm)	5.969						6.696					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 12580/2002=6.28 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	861	990	997	1279	1364	1297	1322	1074	892	792	887	822
Tp [T*10]	195	205	208	200	177	152	130	121	128	145	163	178
Iom [Pp/Tp]	442	482	479	641	769	855	\$\$	890	697	548	545	461
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Summer			Autumn			Winter		Spring			
Pp / Tp	2849 / 609			3940 / 529			3288 / 379		2502 / 486			
Iot [Pp/Tp]	468			745			868		515			
Avs E [Avm<200]	***			***			***		***			

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp):	8.77
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]		5.54
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]		7.05
+ 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]		75.40
+ Temperate warm (100>R>60)		
Aridity Index of Martonne (1926) [Ia=P/(T+10)]		47.14
+ Humid (60>Ia>30)		
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]		254.11
+ Humid (Q>90)		
I of Dantin & Revenga (1940) [DR=100*T/P]		1.33
+ Humid (2>DR>0)		
Aridity Index of UNEP [I=P/PE]		1.58
+ Humid (I>0.65)		
Potential Erosion I of Fournier (1960) [K=Pi ² /P]		14.80
+ Very low (K<60)		

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate

- + Climate
- + Region
- + Thermic type: 3. Macro-mesothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.41	0.41	0.55	0.62	0.63	0.69	0.56	0.45	0.37	0.40	0.35	0.36
T-E ratio	9.24	9.38	8.99	7.98	6.82	5.86	5.43	5.76	6.51	7.33	8.02	8.77
Precipitation-effectiveness: 58.13						Temperature-efficiency						90.10
Moisture Index [MI=100*(P-PE)/PE]												57.80
+ B2.Humid medium-humid (40<MI<60)												
Index of dryness [DI=100*d/PE]												0.00
+ No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]												57.79
+ Strong surplus (20<HI)												
Potential Evapotranspiration PE												797.17
+ Second mesothermic (712<PE<855)												

