

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

CLONCURRY (AUSTRALIA)

Altitude: 190 m.

Latitude: 20°40'S Longitude: 140°30'E

Temperature observation period.: 1962-1994 (33)

Rainfall observation period....: 1935-1994 (60)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	31.11	37.22	25.00	52.78	15.00	111.8	198.26
Feb.	29.73	35.56	23.89	46.11	13.33	106.7	161.35
Mar.	28.89	35.00	22.78	43.89	10.00	61.0	162.36
Apr.	25.83	32.22	19.44	39.44	7.22	17.8	119.40
May.	21.95	28.33	15.56	37.22	4.44	12.7	66.52
Jun.	18.61	25.00	12.22	37.22	1.67	15.2	35.95
Jul.	17.78	25.00	10.56	36.11	1.67	7.6	31.71
Aug.	20.28	27.78	12.78	39.44	1.67	2.5	53.22
Sep.	23.61	31.11	16.11	41.11	5.00	7.6	90.15
Oct.	27.50	35.00	20.00	44.44	6.67	12.7	156.42
Nov.	29.73	36.67	22.78	48.33	12.22	33.0	175.87
Dec.	31.11	37.78	24.44	51.67	14.44	68.6	198.26
Year	25.51	32.22	18.80	43.15	7.78	457	1449.5

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	611
Compensated thermicity index.....(Itc):	611
Simple continentality index.....(Ic):	13.3
Diurnality index.....(Id):	15.0
Annual ombrothermic index.....(Io):	1.49
Monthly dry ombrothermic index.....(Iod1):	0.12
Bimonthly dry ombrothermic index.....(Iod2):	0.27
Three monthly dry ombrothermic index.....(Iod3):	0.29
Four monthly dry ombrothermic index.....(Iod4):	0.41
Annual ombro-evaporation index.....(Ioe):	6.21
Annual positive temperature.....(Tp):	3061
Annual negative temperature.....(Tn):	0
Dry station temperature.....(Td):	617
Positive precipitation.....(Pp):	457

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	0	4	1	7	0

Latitudinal Belt...: Eutropical

Continentalty.....: Oceanic - Low Semihyperoceanic

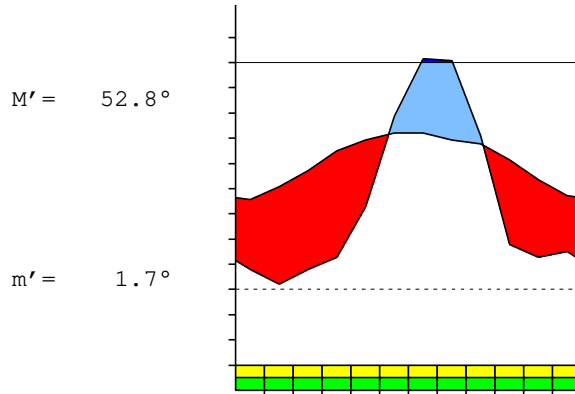
Bioclimate(Variant): TROPICAL XERIC (SEMIARID)

Bioclimatic Belt...: LOW THERMOTROPICAL LOW SEMIARID

CLONCURRENCY (AUSTRALIA)

190 m

P= 457 20° 40' S 140° 30' E 33/60 y.
 T= 25.5° Ic= 13.3 Tp= 3061 Tn= 0
 m= 10.6° M= 25.0° Itc= 611 Io= 1.5



TROPICAL XERIC (SEMIARID)
 LOW THERMOTROPICAL LOW SEMIARID

WATER INDEX CARD CLONCURRENCY (AUSTRALIA)
 Altitude: 190 m. Latitude: 20° 40' S

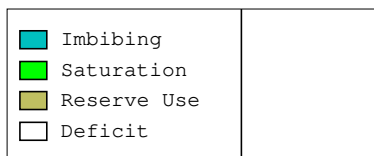
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	17.8	32	8	0	0	8	24	0	0	-0.7
Aug.	20.3	53	3	0	0	3	51	0	0	-0.9
Sep.	23.6	90	8	0	0	8	83	0	0	-0.9
Oct.	27.5	156	13	0	0	13	144	0	0	-0.9
Nov.	29.7	176	33	0	0	33	143	0	0	-0.8
Dec.	31.1	198	69	0	0	69	130	0	0	-0.6
Jan.	31.1	198	112	0	0	112	86	0	0	-0.4
Feb.	29.7	161	107	0	0	107	55	0	0	-0.3
Mar.	28.9	162	61	0	0	61	101	0	0	-0.6
Apr.	25.8	119	18	0	0	18	102	0	0	-0.8
May.	22.0	67	13	0	0	13	54	0	0	-0.8
Jun.	18.6	36	15	0	0	15	21	0	0	-0.5
Year	25.5	1449	457	*	*	457	992	0	0	*

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

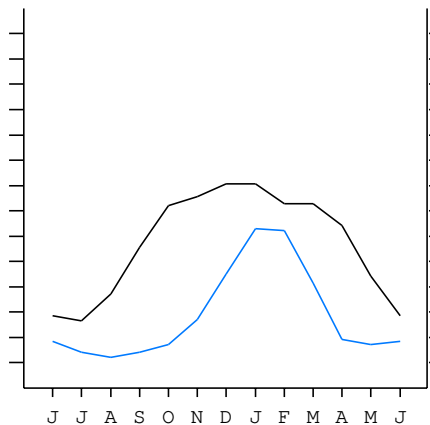
CLONCURRENCY (AUSTRALIA)

20°40' S 140°30' E 190 m 33/60 y.

T= 25.5 Ic= 13.3 TROPICAL XERIC (SEMIARID)
 m= 10.6 Tp= 3061 LOW THERMOTROPICAL
 M= 25.0 Tn= 0 LOW SEMIARID
 M' = 52.8 Itc= 611
 m' = 1.7 Io= 1.5
 P= 457 mm
 PE= 1449 mm



All over the year,
 there is hydric deficit



CLONCURRENCY (AUSTRALIA)

Latitude: 20°40'S Longitude: 140°30'E Altitude: 190 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [B1b]
 + Type: B. Oceanic
 + Subtype: 1. Semihyperoceanic
 + Variant: b. Low
 Thermic types [A2.A1]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 2. Eutropical
 + Thermic type: A. Warm
 + Thermic subtype: 1. Torrid
 Bioclimatic types [A3.2b.4b]
 + Macrobioclimate: A. TROPICAL
 + Bioclimate: 3. XERIC
 + Bioclimatic variant ..:
 + Thermic type.....: 2. THERMOTROPICAL
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 4. SEMIARID
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: Trxe.Ttr.Sar

CLONCURRENCY (AUSTRALIA)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 394
 Coldest semester of the year.....(Psw): 63
 Warmest four months period of the year.....(Pcm1): 320
 Following warmest four months period.....(Pcm2): 107
 Positive precipitation dryest 3 months.....(Ppd): 18
 Positive precipitation dryest 2 months.....(Ppd2): 10
 Positive precipitation dryest 1 month.....(Ppd1): 3
 Positive precipitation warmest 3 months.....(Pps): 213
 Positive precipitation warmest 2 months.....(Pps2): 180
 Positive precipitation warmest 1 month.....(Pps1): 112
 Positive precipitation coldest 3 months.....(Ppw): 25
 Positive precipitation coldest 2 months.....(Ppw2): 23
 Positive precipitation coldest 1 month.....(Ppw1): 8

Seasons	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2
Rainfall	25	53	287	91

Tropical rainfall rhythms: 1 > 2 > 4 > 3

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 31.1
 Average coldest month [T].....(Tmin): 17.8
 Maximum temp. warmest month [M].....(Tmmax): 37.8
 Minimum temp. coldest month [m].....(Tmmin): 10.6
 Absolute Max.temp. warmest month [M'].....(Tamax): 52.8
 Absolute Min.temp. coldest month [m'].....(Tamin): 1.7
 First warmest contrasted month [M].....(Tcmax): 27.8 (8)
 First coldest contrasted month [m].....(Tcmin): 12.8 (8)
 Dry station temperature.....(Td): 617
 Positive temperature dryest 3 months.....(Tpd): 617
 Positive temperature dryest 2 months.....(Tpd2): 381
 Positive temperature dryest 1 month.....(Tpd1): 203
 Positive temperature warmest 3 months.....(Tps): 920
 Positive temperature warmest 2 months.....(Tps2): 622
 Positive temperature warmest 1 month.....(Tps1): 311
 Positive temperature coldest 3 months.....(Tpw): 567
 Positive temperature coldest 2 months.....(Tpw2): 364
 Positive temperature coldest 1 month.....(Tpw1): 178

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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)	o	o	o	o	o	o	o	o	o	o	o	o
HiperAgelid..[all>0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o

CLONCURRENCY (AUSTRALIA)

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 3.17
 Mediterranean index of January.....(Im1): No
 Mediterranean index of January & February.....(Im2): No
 Mediterranean index of December to February...(Im3): No

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	686	1118	1067	610	178	127	152	76	25	76	127	330
Tp	311	311	297	289	258	220	186	178	203	236	275	297
Io (Iom)	2.21	3.59	3.59	2.11	0.69	0.58	0.82	0.43	0.12	0.32	0.46	1.11
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	2871 / 920			915 / 767			253 / 567			533 / 808		
Io (Iot)	3.122			1.193			0.446			0.659		
Semesters	December-May						June-November					
Pp(x10)/Tp	3786 / 1686						786 / 1375					
Io (Iosm)	2.245						0.572					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 4572/3061=1.49 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	686	1118	1067	610	178	127	152	76	25	76	127	330
Tp [T*10]	311	311	297	289	258	220	186	178	203	236	275	297
Iom [Pp/Tp]	221	359	359	211	69	58	82	43	12	32	46	111
Avm [200-Iom]	***	***	***	***	131	142	118	157	188	168	154	89
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp / Tp	2871 / 920			915 / 767			253 / 567			533 / 808		
Iot [Pp/Tp]	312			119			45			66		
Avs E[Avm<200]	***			***			463			411		
Upper ultrahyperarid [1]						Upper hyperarid [1]						
Strong lower arid [3]						Weak lower arid [3]						
Weak upper arid [1]						Strong lower semiarid [1]						

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp): 13.33
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]	43.81
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]	30.43
+ Oceanic (20<CI<40)	
CI of Currey (1974) [CI=Sp/(1+Lat/3)]	1.69
+ Subcontinental (1.1<CI<1.7)	
Rainfall Index of Lang (1925) [R=P/T]	17.92
+ Steppic (40>R>0)	
Aridity Index of Martonne (1926) [Ia=P/(T+10)]	12.87
+ Arid -steppic- (15>Ia>5)	
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]	34.75
+ Semiarid (50>Q>30)	
I of Dantin & Revenga (1940) [DR=100*T/P]	5.58
+ Arid (6>DR>3)	
Aridity Index of UNEP [I=P/PE]	0.32
+ Semiarid (0.5>Im>0.2)	
Potential Erosion I of Fournier (1960) [K=Pi ² /P]	27.34
+ Very low (K<60)	

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate

- + Climate
- + Region
- + Thermic type: 1. Megathermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.37	0.36	0.20	0.05	0.04	0.05	0.03	0.01	0.02	0.04	0.10	0.21
T-E ratio	14.00	13.38	13.00	11.62	9.88	8.37	8.00	9.13	10.62	12.38	13.38	14.00
Precipitation-effectiveness: 14.64						Temperature-efficiency						137.76
Moisture Index [MI=100*(P-PE)/PE]												-68.46
+ E.Dry (-110<MI<-66.7)												
Index of dryness [DI=100*d/PE]												68.45
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												0.00
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												1449.47
+ Megathermic (PE>1440)												

