

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

ONSLOW (AUSTRALIA)

Altitude: 5 m.

Latitude: 21°40'S Longitude: 115°7'E

Temperature observation period.: 1949-1994 (46)

Rainfall observation period....: 1940-1994 (55)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	29.72	36.11	23.33	47.78	15.56	22.9	185.46
Feb.	29.73	35.56	23.89	47.78	16.67	27.9	161.35
Mar.	29.17	35.56	22.78	46.67	14.44	45.7	164.71
Apr.	26.39	33.33	19.44	43.89	10.00	25.4	128.38
May.	22.23	28.89	15.56	38.33	5.56	38.1	73.96
Jun.	18.89	25.56	12.22	32.22	3.33	40.6	41.93
Jul.	18.06	25.00	11.11	32.22	3.33	20.3	38.01
Aug.	19.17	26.67	11.67	35.56	4.44	10.2	48.32
Sep.	21.67	29.44	13.89	38.33	5.56	0.8	71.84
Oct.	23.89	31.67	16.11	44.44	7.22	0.8	107.48
Nov.	26.67	34.44	18.89	46.11	10.00	0.8	150.55
Dec.	28.34	35.56	21.11	47.22	12.22	5.1	174.26
Year	24.49	31.48	17.50	41.71	9.03	239	1346.3

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	606
Compensated thermicity index.....(Itc):	606
Simple continentality index.....(Ic):	11.7
Diurnality index.....(Id):	15.6
Annual ombrothermic index.....(Io):	0.81
Monthly dry ombrothermic index.....(Iod1):	0.04
Bimonthly dry ombrothermic index.....(Iod2):	0.04
Three monthly dry ombrothermic index.....(Iod3):	0.03
Four monthly dry ombrothermic index.....(Iod4):	0.14
Annual ombro-evaporation index.....(Ioe):	1.15
Annual positive temperature.....(Tp):	2939
Annual negative temperature.....(Tn):	0
Dry station temperature.....(Td):	722
Positive precipitation.....(Pp):	239

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	0	1	3	8	0

Latitudinal Belt...: Eutropical

Continentalty.....: Oceanic - High Semihyperoceanic

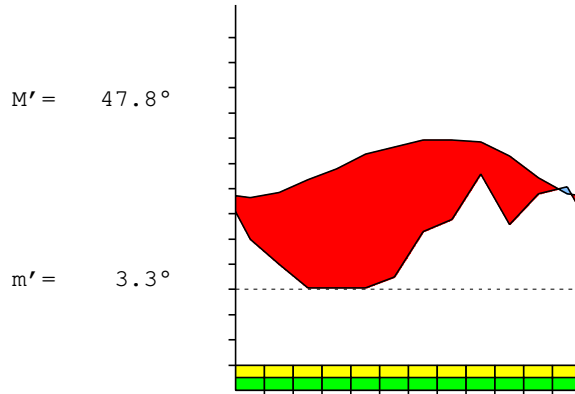
Bioclimate(Variant): TROPICAL DESERTIC (PLUVISEROTIN, ARID)

Bioclimatic Belt...: LOW THERMOTROPICAL UPPER ARID

ONSLow (AUSTRALIA)

5 m

P= 239 21° 40'S 115° 7'E 46/55 y.
 T= 24.5° Ic= 11.7 Tp= 2939 Tn= 0
 m= 11.1° M= 25.0° Itc= 606 Io= 0.8



TROPICAL DESERTIC (PLUVISEROTIN)
 LOW THERMOTROPICAL UPPER ARID

WATER INDEX CARD

ONSLow (AUSTRALIA)

Altitude: 5 m.

Latitude: 21° 40'S

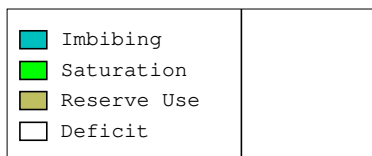
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	18.1	38	20	0	0	20	18	0	0	-0.4
Aug.	19.2	48	10	0	0	10	38	0	0	-0.7
Sep.	21.7	72	1	0	0	1	71	0	0	-0.9
Oct.	23.9	107	1	0	0	1	107	0	0	-0.9
Nov.	26.7	151	1	0	0	1	150	0	0	-0.9
Dec.	28.3	174	5	0	0	5	169	0	0	-0.9
Jan.	29.7	185	23	0	0	23	163	0	0	-0.8
Feb.	29.7	161	28	0	0	28	133	0	0	-0.8
Mar.	29.2	165	46	0	0	46	119	0	0	-0.7
Apr.	26.4	128	25	0	0	25	103	0	0	-0.8
May.	22.2	74	38	0	0	38	36	0	0	-0.4
Jun.	18.9	42	41	0	0	41	1	0	0	0.0
Year	24.5	1346	239	*	*	239	1108	0	0	*

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

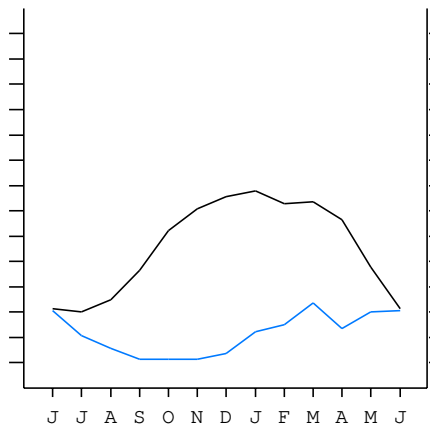
ONSLow (AUSTRALIA)

21°40'S 115°7'E 5 m 46/55 y.

T= 24.5 Ic= 11.7 TROPICAL DESERTIC (PLUVISEROTIN)
 m= 11.1 Tp= 2939 LOW THERMOTROPICAL
 M= 25.0 Tn= 0 UPPER ARID
 M' = 47.8 Itc= 606
 m' = 3.3 Io= 0.8
 P= 239 mm ———
 PE= 1346 mm ———



All over the year,
 there is hydric deficit



ONSLow (AUSTRALIA)

Latitude: 21°40'S Longitude: 115°7'E Altitude: 5 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [B1a]
 + Type: B. Oceanic
 + Subtype: 1. Semihyperoceanic
 + Variant: a. High

Thermic types [A2.A1]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 2. Eutropical
 + Thermic type: A. Warm
 + Thermic subtype: 1. Torrid

Bioclimatic types [A2e.2b.3a]
 + Macrobioclimate: A. TROPICAL
 + Bioclimate: 2. DESERTIC
 + Bioclimatic variant .: e. PLUVISEROTIN, ARID
 + Thermic type.....: 2. THERMOTROPICAL
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 3. ARID
 + Ombrothermic subtype : a. UPPER

Bioclimatic Classification: Trps (Pse).Ttr.Ari

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 128
 Coldest semester of the year.....(Psw): 111
 Warmest four months period of the year.....(Pcm1): 102
 Following warmest four months period.....(Pcm2): 124
 Positive precipitation dryest 3 months.....(Ppd): 2
 Positive precipitation dryest 2 months.....(Ppd2): 2
 Positive precipitation dryest 1 month.....(Ppd1): 1
 Positive precipitation warmest 3 months.....(Pps): 97
 Positive precipitation warmest 2 months.....(Pps2): 51
 Positive precipitation warmest 1 month.....(Pps1): 28
 Positive precipitation coldest 3 months.....(Ppw): 71
 Positive precipitation coldest 2 months.....(Ppw2): 61
 Positive precipitation coldest 1 month.....(Ppw1): 20

Seasons	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2
Rainfall	71	2	55	109

Tropical rainfall rhythms: 2 > 3 > 1 > 4

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 29.7
 Average coldest month [T].....(Tmin): 18.1
 Maximum temp. warmest month [M].....(Tmmax): 36.1
 Minimum temp. coldest month [m].....(Tmmin): 11.1
 Absolute Max.temp. warmest month [M'].....(Tamax): 47.8
 Absolute Min.temp. coldest month [m'].....(Tamin): 3.3
 First warmest contrasted month [M].....(Tcmax): 31.7 (10)
 First coldest contrasted month [m].....(Tcmin): 16.1 (10)
 Dry station temperature.....(Td): 722
 Positive temperature dryest 3 months.....(Tpd): 722
 Positive temperature dryest 2 months.....(Tpd2): 456
 Positive temperature dryest 1 month.....(Tpd1): 217
 Positive temperature warmest 3 months.....(Tps): 886
 Positive temperature warmest 2 months.....(Tps2): 595
 Positive temperature warmest 1 month.....(Tps1): 297
 Positive temperature coldest 3 months.....(Tpw): 561
 Positive temperature coldest 2 months.....(Tpw2): 370
 Positive temperature coldest 1 month.....(Tpw1): 181

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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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 5.64
 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)	51	229	279	457	254	381	406	203	102	8	8	8
Tp	283	297	297	292	264	222	189	181	192	217	239	267
Io (Iom)	0.18	0.77	0.94	1.57	0.96	1.71	2.15	1.12	0.53	0.04	0.03	0.03
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	559 / 878			1092 / 778			711 / 561			24 / 722		
Io (Iot)	0.637			1.404			1.267			0.033		
Semesters	December-May						June-November					
Pp(x10)/Tp	1651 / 1656						735 / 1283					
Io (Iosm)	0.997						0.573					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 2386/2939=0.81 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	51	229	279	457	254	381	406	203	102	8	8	8
Tp [T*10]	283	297	297	292	264	222	189	181	192	217	239	267
Iom [Pp/Tp]	18	77	94	157	96	171	215	112	53	4	3	3
Avm [200-Iom]	182	123	106	43	104	29	***	88	147	196	197	197
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp / Tp	559 / 878			1092 / 778			711 / 561			24 / 722		
Iot [Pp/Tp]	64			140			127			3		
Avs E[Avm<200]	411			176			***			590		
Lower ultrahyperarid [4]							Upper ultrahyperarid [1]					
Weak lower arid [2]							Strong upper arid [1]					
Weak upper arid [2]							Strong lower semiarid [1]					
Weak lower semiarid [1]							Strong upper semiarid [1]					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp): 11.67
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]	33.33
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]	23.79
+ Oceanic (20<CI<40)	
CI of Currey (1974) [CI=Sp/(1+Lat/3)]	1.42
+ Subcontinental (1.1<CI<1.7)	
Rainfall Index of Lang (1925) [R=P/T]	9.74
+ Steppic (40>R>0)	
Aridity Index of Martonne (1926) [Ia=P/(T+10)]	6.92
+ Arid -steppic- (15>Ia>5)	
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]	20.21
+ Arid (30>Q>0)	
I of Dantin & Revenga (1940) [DR=100*T/P]	10.27
+ Extremely arid (DR>6)	
Aridity Index of UNEP [I=P/PE]	0.18
+ Arid (0.2>Im>0.05)	
Potential Erosion I of Fournier (1960) [K=Pi ² /P]	8.75
+ 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	0.06	0.08	0.14	0.08	0.13	0.16	0.07	0.03	0.00	0.00	0.00	0.01
T-E ratio	13.37	13.38	13.13	11.88	10.00	8.50	8.13	8.63	9.75	10.75	12.00	12.75
Precipitation-effectiveness: 7.83						Temperature-efficiency						132.27
Moisture Index [MI=100*(P-PE)/PE]												-82.28
+ E.Dry (-110<MI<-66.7)												
Index of dryness [DI=100*d/PE]												82.27
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												0.00
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												1346.27
+ Forth mesothermic (997<PE<1440)												

