

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

CAMOOWEAL (AUSTRALIA)

Altitude: 241 m.

Latitude: 19°55'S Longitude: 138°8'E

Temperature observation period.: 1982-1994 (13)

Rainfall observation period....: 1955-1994 (40)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	30.28	36.67	23.89	0.00	0.00	100.3	188.96
Feb.	29.45	35.56	23.33	0.00	0.00	88.1	159.11
Mar.	28.06	35.00	21.11	0.00	0.00	52.8	155.39
Apr.	25.28	32.78	17.78	0.00	0.00	10.9	112.03
May.	21.11	28.89	13.33	0.00	0.00	5.1	60.93
Jun.	18.06	26.11	10.00	0.00	0.00	9.7	34.40
Jul.	17.23	25.56	8.89	0.00	0.00	6.6	30.72
Aug.	19.45	28.33	10.56	0.00	0.00	4.1	48.35
Sep.	23.61	32.22	15.00	0.00	0.00	5.6	92.04
Oct.	27.50	35.56	19.44	0.00	0.00	14.5	156.42
Nov.	29.72	37.22	22.22	0.00	0.00	34.3	175.79
Dec.	30.56	37.22	23.89	0.00	0.00	56.9	193.20
Year	25.03	32.59	17.45	0.00	0.00	389	1407.3

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	595
Compensated thermicity index.....(Itc):	595
Simple continentality index.....(Ic):	13.3
Diurnality index.....(Id):	17.8
Annual ombrothermic index.....(Io):	1.29
Monthly dry ombrothermic index.....(Iod1):	0.21
Bimonthly dry ombrothermic index.....(Iod2):	0.23
Three monthly dry ombrothermic index.....(Iod3):	0.27
Four monthly dry ombrothermic index.....(Iod4):	0.33
Annual ombro-evaporation index.....(Ioe):	8.26
Annual positive temperature.....(Tp):	3003
Annual negative temperature.....(Tn):	0
Dry station temperature.....(Td):	603
Positive precipitation.....(Pp):	389

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	0	2	3	7	0

Latitudinal Belt...: Eutropical

Continentalty.....: Oceanic - Low Semihyperoceanic

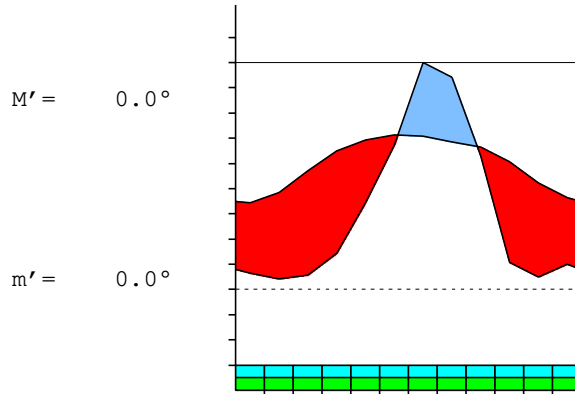
Bioclimate(Variant): TROPICAL XERIC (SEMIARID)

Bioclimatic Belt...: LOW THERMOTROPICAL LOW SEMIARID

CAMOOWEAL (AUSTRALIA)

241 m

P= 389 19° 55'S 138° 8'E 13/40 y.
 T= 25.0° Ic= 13.3 Tp= 3003 Tn= 0
 m= 8.9° M= 25.6° Itc= 595 Io= 1.3



TROPICAL XERIC (SEMIARID)
 LOW THERMOTROPICAL LOW SEMIARID

WATER INDEX CARD CAMOOWEAL (AUSTRALIA)
 Altitude: 241 m. Latitude: 19° 55'S

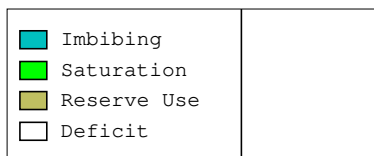
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	17.2	31	7	0	0	7	24	0	0	-0.7
Aug.	19.5	48	4	0	0	4	44	0	0	-0.9
Sep.	23.6	92	6	0	0	6	86	0	0	-0.9
Oct.	27.5	156	15	0	0	15	142	0	0	-0.9
Nov.	29.7	176	34	0	0	34	141	0	0	-0.8
Dec.	30.6	193	57	0	0	57	136	0	0	-0.7
Jan.	30.3	189	100	0	0	100	89	0	0	-0.4
Feb.	29.5	159	88	0	0	88	71	0	0	-0.4
Mar.	28.1	155	53	0	0	53	103	0	0	-0.6
Apr.	25.3	112	11	0	0	11	101	0	0	-0.9
May.	21.1	61	5	0	0	5	56	0	0	-0.9
Jun.	18.1	34	10	0	0	10	25	0	0	-0.7
Year	25.0	1407	389	*	*	389	1018	0	0	*

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

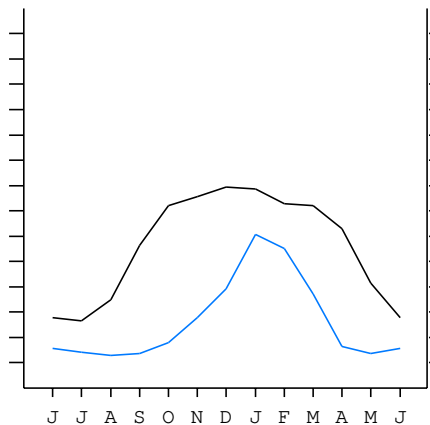
CAMOOWEAL (AUSTRALIA)

19°55'S 138°8'E 241 m 13/40 y.

T= 25.0 Ic= 13.3 TROPICAL XERIC (SEMIARID)
 m= 8.9 Tp= 3003 LOW THERMOTROPICAL
 M= 25.6 Tn= 0 LOW SEMIARID
 M' = 0.0 Itc= 595
 m' = 0.0 Io= 1.3
 P= 389 mm
 PE= 1407 mm



All over the year,
 there is hydric deficit



CAMOOWEAL (AUSTRALIA)

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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

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 347
 Coldest semester of the year.....(Psw): 42
 Warmest four months period of the year.....(Pcm1): 280
 Following warmest four months period.....(Pcm2): 79
 Positive precipitation dryest 3 months.....(Ppd): 16
 Positive precipitation dryest 2 months.....(Ppd2): 10
 Positive precipitation dryest 1 month.....(Ppd1): 4
 Positive precipitation warmest 3 months.....(Pps): 192
 Positive precipitation warmest 2 months.....(Pps2): 157
 Positive precipitation warmest 1 month.....(Pps1): 57
 Positive precipitation coldest 3 months.....(Ppw): 20
 Positive precipitation coldest 2 months.....(Ppw2): 16
 Positive precipitation coldest 1 month.....(Ppw1): 7

Seasons	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2
Rainfall	20	54	245	68

Tropical rainfall rhythms: 1 > 2 > 4 > 3

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 30.6
 Average coldest month [T].....(Tmin): 17.2
 Maximum temp. warmest month [M].....(Tmmax): 37.2
 Minimum temp. coldest month [m].....(Tmmin): 8.9
 Absolute Max.temp. warmest month [M'].....(Tamax): 0.0
 Absolute Min.temp. coldest month [m'].....(Tamin): 0.0
 First warmest contrasted month [M].....(Tcmax): 28.3 (8)
 First coldest contrasted month [m].....(Tcmin): 10.6 (8)
 Dry station temperature.....(Td): 603
 Positive temperature dryest 3 months.....(Tpd): 603
 Positive temperature dryest 2 months.....(Tpd2): 431
 Positive temperature dryest 1 month.....(Tpd1): 195
 Positive temperature warmest 3 months.....(Tps): 906
 Positive temperature warmest 2 months.....(Tps2): 608
 Positive temperature warmest 1 month.....(Tps1): 306
 Positive temperature coldest 3 months.....(Tpw): 547
 Positive temperature coldest 2 months.....(Tpw2): 353
 Positive temperature coldest 1 month.....(Tpw1): 172

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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): 3.62
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)	569	1003	881	528	109	51	97	66	41	56	145	343
Tp	306	303	295	281	253	211	181	172	195	236	275	297
Io (Iom)	1.86	3.31	2.99	1.88	0.43	0.24	0.54	0.38	0.21	0.24	0.53	1.15
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	2453 / 903			688 / 745			204 / 547			544 / 808		
Io (Iot)	2.717			0.924			0.373			0.673		
Semesters	December-May						June-November					
Pp(x10)/Tp	3141 / 1647						748 / 1356					
Io (Iosm)	1.907						0.552					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 3889/3003=1.29 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	569	1003	881	528	109	51	97	66	41	56	145	343
Tp [T*10]	306	303	295	281	253	211	181	172	195	236	275	297
Iom [Pp/Tp]	186	331	299	188	43	24	54	38	21	24	53	115
Avm [200-Iom]	14	***	***	12	157	176	146	162	179	176	147	85
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp / Tp	2453 / 903			688 / 745			204 / 547			544 / 808		
Iot [Pp/Tp]	272			92			37			67		
Avs E[Avm<200]	***			345			487			408		
Lower hyperarid [3]							Upper hyperarid [2]					
Strong lower arid [1]							Weak lower arid [3]					
Weak upper arid [1]							Strong lower semiarid [1]					
Weak upper semiarid [2]												

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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]		46.12
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]		31.44
+ Oceanic (20<CI<40)		
CI of Currey (1974) [CI=Sp/(1+Lat/3)]		1.75
+ Continental (1.7<CI<2.3)		
Rainfall Index of Lang (1925) [R=P/T]		15.54
+ Steppic (40>R>0)		
Aridity Index of Martonne (1926) [Ia=P/(T+10)]		11.10
+ Arid -steppic- (15>Ia>5)		
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]		29.77
+ Arid (30>Q>0)		
I of Dantin & Revenga (1940) [DR=100*T/P]		6.44
+ Extremely arid (DR>6)		
Aridity Index of UNEP [I=P/PE]		0.28
+ Semiarid (0.5>Im>0.2)		
Potential Erosion I of Fournier (1960) [K=Pi ² /P]		25.87
+ Very low (K<60)		

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: A. Warm and temperate warm
 + Region

+ Thermic type: 1. Megathermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.33	0.29	0.17	0.03	0.01	0.03	0.02	0.01	0.02	0.04	0.10	0.17
T-E ratio	13.63	13.25	12.63	11.38	9.50	8.13	7.75	8.75	10.62	12.38	13.37	13.75
Precipitation-effectiveness: 12.35						Temperature-efficiency: 135.14						
Moisture Index [MI=100*(P-PE)/PE]												
+ E.Dry (-110<MI<-66.7)												
Index of dryness [DI=100*d/PE]												
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												
+ Forth mesothermic (997<PE<1440)												

