

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

EAST SALE (AUSTRALIA)

Altitude: 5 m.

Latitude: 38°6'S Longitude: 147°9'E

Temperature observation period.: 1984-1994 (11)

Rainfall observation period....: 1936-1994 (59)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	18.06	24.44	11.67	39.44	3.89	47.0	100.37
Feb.	18.34	23.89	12.78	40.56	3.33	48.0	86.91
Mar.	16.95	22.78	11.11	33.89	3.33	56.1	78.83
Apr.	13.89	19.44	8.33	32.78	-1.67	42.9	52.28
May.	11.39	16.11	6.67	25.56	-2.78	49.0	37.36
Jun.	9.17	13.89	4.44	23.33	-4.44	46.0	25.59
Jul.	8.33	13.33	3.33	18.89	-4.44	41.9	23.87
Aug.	9.45	15.00	3.89	23.89	-1.67	42.9	30.99
Sep.	11.11	17.22	5.00	27.78	-3.89	57.9	41.51
Oct.	13.34	18.89	7.78	32.22	1.11	63.0	60.67
Nov.	14.73	20.56	8.89	35.56	1.67	56.1	72.45
Dec.	16.67	22.78	10.56	40.56	3.33	50.0	92.19
Year	13.45	19.03	7.87	31.20	-0.19	601	703.04

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	301
Compensated thermicity index.....(Itc):	301
Simple continentality index.....(Ic):	10.0
Diurnality index.....(Id):	12.8
Annual ombrothermic index.....(Io):	3.72
Monthly estival ombrothermic index.....(Ios1):	2.60
Bimonthly estival ombrothermic index.....(Ios2):	2.61
Three monthly estival ombrothermic index.....(Ios3):	2.73
Four monthly estival ombrothermic index.....(Ios4):	2.97
Annual ombro-evaporation index.....(Ioe):	1.00
Annual positive temperature.....(Tp):	1614
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	531
Positive precipitation.....(Pp):	601

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	6	6	0	0	0

Latitudinal Belt...: Low eutemperate

Continentalty.....: Hyperoceanic - Low Subhyperoceanic

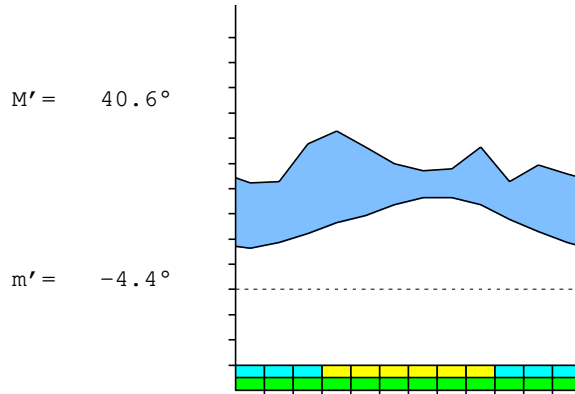
Bioclimate(Variant): TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)

Bioclimatic Belt...: UPPER THERMOTEMPERATE LOW SUBHUMID

EAST SALE (AUSTRALIA)

5 m

P= 601 38° 6'S 147° 9'E 11/59 y.
 T= 13.5° Ic= 10.0 Tp= 1614 Tn= 0
 m= 3.3° M= 13.3° Itc= 301 Io= 3.7



TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)
 UPPER THERMOTEMPERATE LOW SUBHUMID

WATER INDEX CARD EAST SALE (AUSTRALIA)
 Altitude: 5 m. Latitude: 38° 6'S

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	8.3	24	42	18	50	24	0	0	0	0.7
Aug.	9.4	31	43	12	62	31	0	0	0	0.3
Sep.	11.1	42	58	16	78	42	0	0	0	0.3
Oct.	13.3	61	63	2	81	61	0	0	0	0.0
Nov.	14.7	72	56	-16	64	72	0	0	0	-0.2
Dec.	16.7	92	50	-42	22	92	0	0	0	-0.4
Jan.	18.1	100	47	-22	0	69	31	0	0	-0.5
Feb.	18.3	87	48	0	0	48	39	0	0	-0.4
Mar.	17.0	79	56	0	0	56	23	0	0	-0.2
Apr.	13.9	52	43	0	0	43	9	0	0	-0.1
May.	11.4	37	49	12	12	37	0	0	0	0.3
Jun.	9.2	26	46	20	32	26	0	0	0	0.7
Year	13.5	703	601	*	*	601	102	0	0	*

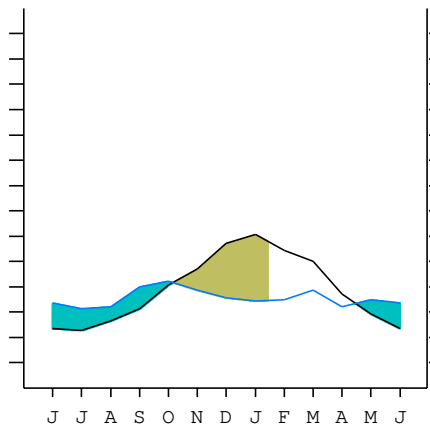
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

EAST SALE (AUSTRALIA)

38°6'S 147°9'E 5 m 11/59 y.

T= 13.5 Ic= 10.0 TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)
 m= 3.3 Tp= 1614 UPPER THERMOTEMPERATE
 M= 13.3 Tn= 0 LOW SUBHUMID
 M' = 40.6 Itc= 301
 m' = -4.4 Io= 3.7
 P= 601 mm ———
 PE= 703 mm ———

Imbibing	14 Apr.
Saturation	4 Oct.
Reserve Use	13 Jan.
Deficit	



EAST SALE (AUSTRALIA)

Latitude: 38°6'S Longitude: 147°9'E Altitude: 5 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A3b]
 + Type: A. Hyperoceanic
 + Subtype: 3. Subhyperoceanic
 + Variant: b. Low
 Thermic types [B1.B4]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 1. Low eutemperate
 + Thermic type: B. Temperate
 + Thermic subtype: 4. Temperate
 Bioclimatic types [C4b.2a.6b]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 4. HYPEROCEANIC
 + Bioclimatic variant .: b. SUBMEDITERRANEAN
 + Thermic type.....: 2. THERMOTEMPERATE
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: Texe (Sbm).Tte.Shu

EAST SALE (AUSTRALIA)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 300
 Coldest semester of the year.....(Psw): 301
 Warmest four months period of the year.....(Pcm1): 201
 Following warmest four months period.....(Pcm2): 180
 Positive precipitation dryest 3 months.....(Ppd): 131
 Positive precipitation dryest 2 months.....(Ppd2): 85
 Positive precipitation dryest 1 month.....(Ppd1): 42
 Positive precipitation warmest 3 months.....(Pps): 151
 Positive precipitation warmest 2 months.....(Pps2): 95
 Positive precipitation warmest 1 month.....(Pps1): 48
 Positive precipitation coldest 3 months.....(Ppw): 131
 Positive precipitation coldest 2 months.....(Ppw2): 88
 Positive precipitation coldest 1 month.....(Ppw1): 42

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	130	177	145	148

Seasonal rainfall rhythms: P > F > S > W

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 18.3
 Average coldest month [T].....(Tmin): 8.3
 Maximum temp. warmest month [M].....(Tmmax): 24.4
 Minimum temp. coldest month [m].....(Tmmin): 3.3
 Absolute Max.temp. warmest month [M'].....(Tamax): 40.6
 Absolute Min.temp. coldest month [m'].....(Tamin): -4.4
 First warmest contrasted month [M].....(Tcmax): 24.4 (1)
 First coldest contrasted month [m].....(Tcmin): 11.7 (1)
 Estival temperature.....(Ts): 531
 Positive temperature dryest 3 months.....(Tpd): 270
 Positive temperature dryest 2 months.....(Tpd2): 178
 Positive temperature dryest 1 month.....(Tpd1): 83
 Positive temperature warmest 3 months.....(Tps): 534
 Positive temperature warmest 2 months.....(Tps2): 364
 Positive temperature warmest 1 month.....(Tps1): 183
 Positive temperature coldest 3 months.....(Tpw): 270
 Positive temperature coldest 2 months.....(Tpw2): 175
 Positive temperature coldest 1 month.....(Tpw1): 83

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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)				o	o	o	o	o	o			
Agelid.....[m' > 0] (Pf)	o	o	o							o	o	o
HiperAgelid..[all>0] (Pf)	o	o	o							o	o	o

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 1.17
 Mediterranean index of January.....(Im1): 2.14
 Mediterranean index of January & February.....(Im2): 1.97
 Mediterranean index of December to February...(Im3): 1.93

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	500	470	480	561	429	490	460	419	429	579	630	561
Tp	167	181	183	170	139	114	92	83	95	111	133	147
Io (Iom)	3.00	2.60	2.62	3.31	3.09	4.30	5.02	5.03	4.54	5.21	4.72	3.81
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	1450 / 531			1480 / 422			1308 / 270			1770 / 392		
Io (Iot)	2.732			3.505			4.853			4.518		
Semesters	December-May						June-November					
Pp(x10)/Tp	2930 / 953						3078 / 661					
Io (Iosm)	3.075						4.654					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 6008/1614=3.72 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	500	470	480	561	429	490	460	419	429	579	630	561
Tp [T*10]	167	181	183	170	139	114	92	83	95	111	133	147
Iom [Pp/Tp]	300	260	262	331	309	430	502	503	454	521	472	381
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	1450 / 531			1480 / 422			1308 / 270			1770 / 392		
Iot [Pp/Tp]	273			350			485			452		
Avs E[Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp): 10.01
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]	7.18
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]	8.86
+ Hyperoceanic (-20<CI<20)	
CI of Currey (1974) [CI=Sp/(1+Lat/3)]	0.73
+ Oceanic (0.6<CI<1.1)	
Rainfall Index of Lang (1925) [R=P/T]	44.66
+ Semiarid (60>R>40)	
Aridity Index of Martonne (1926) [Ia=P/(T+10)]	25.62
+ Subhumid (30>Ia>20)	
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]	102.49
+ Humid (Q>90)	
I of Dantin & Revenga (1940) [DR=100*T/P]	2.24
+ Semiarid (3>DR>2)	
Aridity Index of UNEP [I=P/PE]	0.85
+ Humid (I>0.65)	
Potential Erosion I of Fournier (1960) [K=Pi ² /P]	6.61
+ Very low (K<60)	

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate

- + Climate
- + Region
- + Thermic type: 4. Mesothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.19	0.19	0.24	0.19	0.24	0.24	0.22	0.22	0.29	0.30	0.25	0.21
T-E ratio	8.13	8.25	7.63	6.25	5.13	4.13	3.75	4.25	5.00	6.00	6.63	7.50
Precipitation-effectiveness: 27.98						Temperature-efficiency						72.64
Moisture Index [MI=100*(P-PE)/PE]												-14.54
+ C1.Subhumid dry (-33.3<MI<0)												
Index of dryness [DI=100*d/PE]												14.54
+ No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]												0.00
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												703.04
+ First mesothermic (570<PE<712)												

