

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

Prof.Dr. Salvador Rivas-Martinez

(Adapted to Synoptical Table 30/08/2017)

TAZACORTE -LA PALMA- (ESP S.C.TENERIFE) Altitude: 131 m.

Latitude: 28°41'N Longitude: 17°57'W
 Temperature observation period.: 1949-1964 (16)
 Rainfall observation period....: 1949-1964 (16)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	17.50	21.20	13.90	24.10	11.50	66.0	51.15
Feb.	17.20	20.90	13.60	24.10	11.70	34.0	47.15
Mar.	17.60	21.10	14.10	24.20	11.30	31.0	58.60
Apr.	18.20	21.80	14.60	24.90	12.20	20.0	65.34
May.	19.30	23.00	15.70	25.80	13.60	3.0	80.85
Jun.	20.50	23.80	17.20	26.00	14.60	3.0	91.04
Jul.	21.80	25.10	18.40	29.90	15.70	0.0	106.33
Aug.	22.60	26.00	19.20	31.20	16.90	0.0	108.94
Sep.	22.20	25.20	19.20	26.10	17.70	4.0	95.63
Oct.	21.80	25.00	18.60	27.90	15.90	27.0	87.56
Nov.	20.20	23.70	16.80	27.00	13.50	92.0	67.71
Dec.	18.20	21.70	14.70	24.30	12.70	46.0	54.34
Year	19.76	23.21	16.33	26.29	13.94	326	914.65

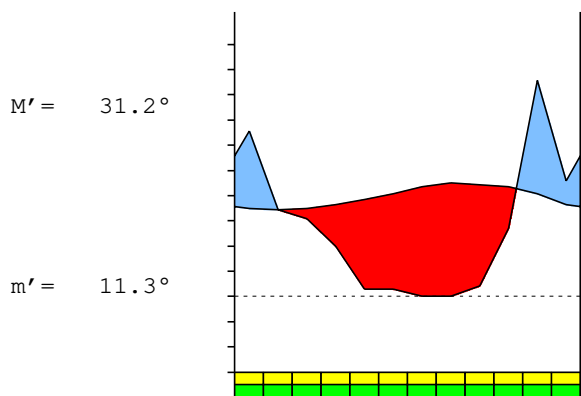
BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	543
Compensated thermicity index.....(Itc):	517
Simple continentality index.....(Ic):	5.4
Diurnality index.....(Id):	7.3
Annual ombrothermic index.....(Io):	1.37
Monthly estival ombrothermic index.....(Ios1):	No
Bimonthly estival ombrothermic index.....(Ios2):	No
Threemonthly estival ombrothermic index.....(Ios3):	0.05
Fourmonthly estival ombrothermic index.....(Ios4):	0.07
Annual ombro-evaporation index.....(Ioe):	0.63
Annual positive temperature.....(Tp):	2371
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	649
Positive precipitation.....(Pp):	326

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	1	2	4	5	0

Latitudinal Belt...: Subtropical
 Continentality.....: Hyperoceanic - High Euhyperoceanic
 Bioclimate.....: MEDITERRANEAN XERIC-OCEANIC
 Bioclimatic Belt...: LOW INFRAMEDITERRANEAN LOW SEMIARID

TAZACORTE -LA PALMA- (ESP S.C.TENERIFE) 131 m
 P= 326 28° 41'N 17° 57'W 16/16 y.
 T= 19.8° Ic= 5.4 Tp= 2371 Tn= 0
 m= 13.6° M= 20.9° Itc= 517 Io= 1.4



MEDITERRANEAN XERIC-OCEANIC
 LOW INFRAMEDITERRANEAN LOW SEMIARID

WATER INDEX CARD TAZACORTE -LA PALMA- (ESP S.C.TENERIFE)
 Altitude: 131 m. Latitude: 28° 41'N

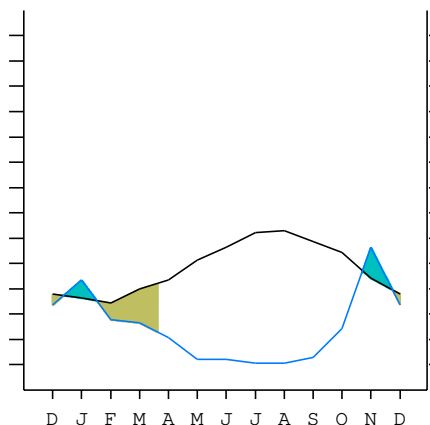
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	17.5	51	66	15	31	51	0	0	0	0.2
Feb.	17.2	47	34	-13	18	47	0	0	0	-0.2
Mar.	17.6	59	31	-18	0	49	10	0	0	-0.4
Apr.	18.2	65	20	0	0	20	45	0	0	-0.6
May.	19.3	81	3	0	0	3	78	0	0	-0.9
Jun.	20.5	91	3	0	0	3	88	0	0	-0.9
Jul.	21.8	106	0	0	0	0	106	0	0	-1.0
Aug.	22.6	109	0	0	0	0	109	0	0	-1.0
Sep.	22.2	96	4	0	0	4	92	0	0	-0.9
Oct.	21.8	88	27	0	0	27	61	0	0	-0.6
Nov.	20.2	68	92	24	24	68	0	0	0	0.3
Dec.	18.2	54	46	-8	16	54	0	0	0	-0.1
Year	19.8	915	326	*	*	326	589	0	0	*

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

TAZACORTE -LA PALMA- (ESP S.C.TENERIFE)
 28°41'N 17°57'W 131 m 16/16 y.

T= 19.8 Ic= 5.4 MEDITERRANEAN XERIC-OCEANIC
 m= 13.6 Tp= 2371 LOW INFRAMEDITERRANEAN
 M= 20.9 Tn= 0 LOW SEMIARID
 M' = 31.2 Itc= 517
 m' = 11.3 Io= 1.4
 P= 326 mm ———
 PE= 915 mm ———

Imbibing	22 Oct.
Saturation	23 Nov.
Reserve Use	20 Mar.
Deficit	



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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A2a]
 + Type: A. Hyperoceanic
 + Subtype: 2. Euhyperoceanic
 + Variant: a. High

Thermic types [A3.A2]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 3. Subtropical
 + Thermic type: A. Warm
 + Thermic subtype: 2. Warm

Bioclimatic types [B6.1b.4b]
 + Macrobioclimate: B. MEDITERRANEAN
 + Bioclimate: 6. XERIC-OCEANIC
 + Bioclimatic variant ..:
 + Thermic type.....: 1. INFRAMEDITERRANEAN
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 4. SEMIARID
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: MepDC.Ime.Sar

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 126
 Coldest semester of the year.....(Psw): 200
 Warmest four months period of the year.....(Pcm1): 31
 Following warmest four months period.....(Pcm2): 238
 Positive precipitation dryest 3 months.....(Ppd): 3
 Positive precipitation dryest 2 months.....(Ppd2): 0
 Positive precipitation dryest 1 month.....(Ppd1): 0
 Positive precipitation warmest 3 months.....(Pps): 4
 Positive precipitation warmest 2 months.....(Pps2): 4
 Positive precipitation warmest 1 month.....(Pps1): 0
 Positive precipitation coldest 3 months.....(Ppw): 131
 Positive precipitation coldest 2 months.....(Ppw2): 100
 Positive precipitation coldest 1 month.....(Ppw1): 34

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	146	54	3	123

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 22.6
 Average coldest month [T].....(Tmin): 17.2
 Maximum temp. warmest month [M].....(Tmmax): 26.0
 Minimum temp. coldest month [m].....(Tmmin): 13.6
 Absolute Max.temp. warmest month [M'].....(Tamax): 31.2
 Absolute Min.temp. coldest month [m'].....(Tamin): 11.3
 First warmest contrasted month [M].....(Tcmax): 21.2 (1)
 First coldest contrasted month [m].....(Tcmin): 13.9 (1)
 Estival temperature.....(Ts): 649
 Positive temperature dryest 3 months.....(Tpd): 649
 Positive temperature dryest 2 months.....(Tpd2): 444
 Positive temperature dryest 1 month.....(Tpd1): 218
 Positive temperature warmest 3 months.....(Tps): 666
 Positive temperature warmest 2 months.....(Tps2): 448
 Positive temperature warmest 1 month.....(Tps1): 226
 Positive temperature coldest 3 months.....(Tpw): 523
 Positive temperature coldest 2 months.....(Tpw2): 347
 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)	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): 2.81
 Mediterranean index of July.[PE/P].....(Im1): No
 Mediterranean index of July & August.....(Im2): No
 Mediterranean index of June, July & August....(Im3): 102.10

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	460	660	340	310	200	30	30	0	0	40	270	920
Tp	182	175	172	176	182	193	205	218	226	222	218	202
Io (Iom)	2.53	3.77	1.98	1.76	1.10	0.16	0.15	0.00	0.00	0.18	1.24	4.55
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	1460 / 529			540 / 551			30 / 649			1230 / 642		
Io (Iot)	2.760			0.980			0.046			1.916		
Semesters	December-May						June-November					
Pp(x10)/Tp	2000 / 1080						1260 / 1291					
Io (Iosm)	1.852						0.976					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 3260/2371=1.37 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	460	660	340	310	200	30	30	0	0	40	270	920
Tp [T*10]	182	175	172	176	182	193	205	218	226	222	218	202
Iom [Pp/Tp]	253	377	198	176	110	16	15	0	0	18	124	455
Avm [200-Iom]	***	***	2	24	90	184	185	200	200	182	76	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	1460 / 529			540 / 551			30 / 649			1230 / 642		
Iot [Pp/Tp]	276			98			5			192		
Avs E[Avm<200]	***			298			585			***		
Lower ultrahyperarid [3]							Upper ultrahyperarid [3]					
Strong lower semiarid [2]							Weak lower semiarid [1]					
Weak upper semiarid [2]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 5.40
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: -1.27
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 0.69
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.51
 + Hyperoceanic (0<CI<0.6)
 Rainfall Index of Lang (1925) [R=P/T]: 16.50
 + Steppic (40>R>0)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 10.95
 + Arid -steppic- (15>Ia>5)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 66.39
 + Subhumid (90>Q>50)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 6.06
 + Extremely arid (DR>6)
 Aridity Index of UNEP [I=P/PE]: 0.36
 + Semiarid (0.5>Im>0.2)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 25.96
 + 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: 2. Macrothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.28	0.14	0.12	0.07	0.01	0.01	0.00	0.00	0.01	0.09	0.38	0.18
T-E ratio	7.88	7.74	7.92	8.19	8.68	9.23	9.81	10.17	9.99	9.81	9.09	8.19
Precipitation-effectiveness: 12.93						Temperature-efficiency: 106.70						
Moisture Index [MI=100*(P-PE)/PE]: -64.36 + D.Semiarid (-66.7<MI<-33.3)												
Index of dryness [DI=100*d/PE]: 64.35 + Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]: 0.00 + No surplus (0<HI<10)												
Potential Evapotranspiration PE: 914.65 + Third mesothermic (855<PE<997)												

