

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

SANTA CRUZ DE TENERIFE (ESP S.C.TENERIFE) Altitude: 36 m.
 Latitude: 28°28'N Longitude: 16°15'W
 Temperature observation period.: 1921-1993 (73)
 Rainfall observation period....: 1880-1993 (114)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	17.62	20.20	15.00	0.00	0.00	42.8	47.91
Feb.	17.65	21.13	13.98	0.00	0.00	38.5	46.51
Mar.	18.39	22.68	14.23	0.00	0.00	26.7	59.86
Apr.	19.12	23.00	15.20	0.00	0.00	16.6	68.04
May.	20.35	23.93	16.77	0.00	0.00	5.9	85.93
Jun.	22.26	24.75	19.55	0.00	0.00	0.9	104.83
Jul.	24.32	26.90	21.70	0.00	0.00	0.1	130.84
Aug.	24.93	28.43	21.28	0.00	0.00	0.7	132.68
Sep.	24.21	27.83	20.68	0.00	0.00	4.4	113.02
Oct.	22.81	24.65	20.75	0.00	0.00	25.1	93.70
Nov.	20.54	23.61	17.44	0.00	0.00	47.0	67.54
Dec.	18.59	21.61	15.44	0.00	0.00	56.2	53.63
Year	20.90	24.06	17.67	0.00	0.00	265	1004.5

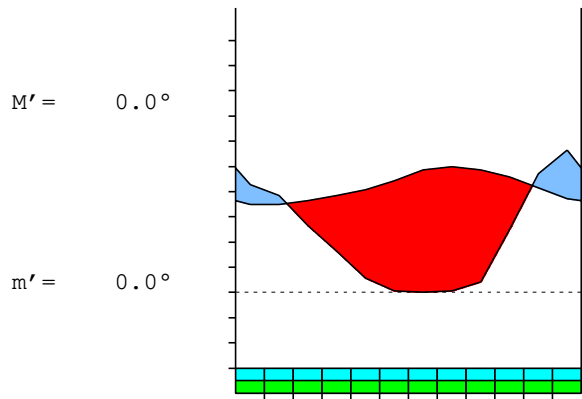
BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	561
Compensated thermicity index.....(Itc):	554
Simple continentality index.....(Ic):	7.3
Diurnality index.....(Id):	8.5
Annual ombrothermic index.....(Io):	1.06
Monthly estival ombrothermic index.....(Ios1):	0.00
Bimonthly estival ombrothermic index.....(Ios2):	0.02
Threemonthly estival ombrothermic index.....(Ios3):	0.02
Fourmonthly estival ombrothermic index.....(Ios4):	0.08
Annual ombro-evaporation index.....(Ioe):	0.42
Annual positive temperature.....(Tp):	2508
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	715
Positive precipitation.....(Pp):	265

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

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

SANTA CRUZ DE TENERIFE (ESP S.C.TENERIFE) 36 m
 P= 265 28° 28'N 16° 15'W 73/114 y.
 T= 20.9° Ic= 7.3 Tp= 2508 Tn= 0
 m= 15.0° M= 20.2° Itc= 554 Io= 1.1



MEDITERRANEAN XERIC-OCEANIC
 LOW INFRAMEDITERRANEAN LOW SEMIARID

WATER INDEX CARD SANTA CRUZ DE TENERIFE (ESP S.C.TENERIFE)
 Altitude: 36 m. Latitude: 28° 28'N

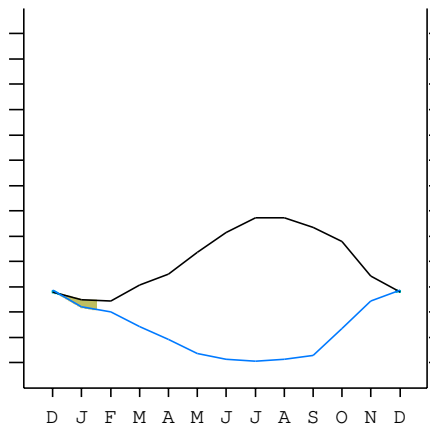
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	17.6	48	43	-3	0	45	3	0	0	-0.1
Feb.	17.6	47	39	0	0	39	8	0	0	-0.1
Mar.	18.4	60	27	0	0	27	33	0	0	-0.5
Apr.	19.1	68	17	0	0	17	51	0	0	-0.7
May.	20.4	86	6	0	0	6	80	0	0	-0.9
Jun.	22.3	105	1	0	0	1	104	0	0	-0.9
Jul.	24.3	131	0	0	0	0	131	0	0	-0.9
Aug.	24.9	133	1	0	0	1	132	0	0	-0.9
Sep.	24.2	113	4	0	0	4	109	0	0	-0.9
Oct.	22.8	94	25	0	0	25	69	0	0	-0.7
Nov.	20.5	68	47	0	0	47	21	0	0	-0.3
Dec.	18.6	54	56	3	3	54	0	0	0	0.0
Year	20.9	1005	265	*	*	265	740	0	0	*

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

SANTA CRUZ DE TENERIFE (ESP S.C.TENERIFE)
 28°28'N 16°15'W 36 m 73/114 y.

T= 20.9 Ic= 7.3 MEDITERRANEAN XERIC-OCEANIC
 m= 15.0 Tp= 2508 LOW INFRAMEDITERRANEAN
 M= 20.2 Tn= 0 LOW SEMIARID
 M' = 0.0 Itc= 554
 m' = 0.0 Io= 1.1
 P= 265 mm
 PE= 1005 mm

Imbibing	27 Nov.
Saturation	10 Dec.
Reserve Use	15 Jan.
Deficit	



SANTA CRUZ DE TENERIFE (ESP S.C.TENERIFE)

Latitude: 28°28'N Longitude: 16°15'W Altitude: 36 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A2b]
 + Type: A. Hyperoceanic
 + Subtype: 2. Euhyperoceanic
 + Variant: b. Low

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

SANTA CRUZ DE TENERIFE (ESP S.C.TENERIFE)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 78
 Coldest semester of the year.....(Psw): 187
 Warmest four months period of the year.....(Pcm1): 30
 Following warmest four months period.....(Pcm2): 184
 Positive precipitation dryest 3 months.....(Ppd): 2
 Positive precipitation dryest 2 months.....(Ppd2): 1
 Positive precipitation dryest 1 month.....(Ppd1): 0
 Positive precipitation warmest 3 months.....(Pps): 5
 Positive precipitation warmest 2 months.....(Pps2): 1
 Positive precipitation warmest 1 month.....(Pps1): 1
 Positive precipitation coldest 3 months.....(Ppw): 108
 Positive precipitation coldest 2 months.....(Ppw2): 81
 Positive precipitation coldest 1 month.....(Ppw1): 43

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	137	49	1	76

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 24.9
 Average coldest month [T].....(Tmin): 17.6
 Maximum temp. warmest month [M].....(Tmmax): 28.4
 Minimum temp. coldest month [m].....(Tmmin): 14.0
 Absolute Max.temp. warmest month [M'].....(Tamax): 0.0
 Absolute Min.temp. coldest month [m'].....(Tamin): 0.0
 First warmest contrasted month [M].....(Tcmax): 22.7 (3)
 First coldest contrasted month [m].....(Tcmin): 14.2 (3)
 Estival temperature.....(Ts): 715
 Positive temperature dryest 3 months.....(Tpd): 715
 Positive temperature dryest 2 months.....(Tpd2): 493
 Positive temperature dryest 1 month.....(Tpd1): 243
 Positive temperature warmest 3 months.....(Tps): 735
 Positive temperature warmest 2 months.....(Tps2): 493
 Positive temperature warmest 1 month.....(Tps1): 249
 Positive temperature coldest 3 months.....(Tpw): 537
 Positive temperature coldest 2 months.....(Tpw2): 353
 Positive temperature coldest 1 month.....(Tpw1): 176

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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): 3.79
 Mediterranean index of July.[PE/P].....(Im1): 1308.43
 Mediterranean index of July & August.....(Im2): 313.72
 Mediterranean index of June, July & August....(Im3): 214.16

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	562	428	385	267	166	59	9	1	7	44	251	470
Tp	186	176	177	184	191	204	223	243	249	242	228	205
Io (Iom)	3.02	2.43	2.18	1.45	0.87	0.29	0.04	0.00	0.03	0.18	1.10	2.29
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	1375 / 539			492 / 579			17 / 715			764 / 676		
Io (Iot)	2.553			0.851			0.024			1.131		
Semesters	December-May						June-November					
Pp(x10)/Tp	1867 / 1117						781 / 1391					
Io (Iosm)	1.671						0.562					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 2648/2508=1.06 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	562	428	385	267	166	59	9	1	7	44	251	470
Tp [T*10]	186	176	177	184	191	204	223	243	249	242	228	205
Iom [Pp/Tp]	302	243	218	145	87	29	4	0	3	18	110	229
Avm [200-Iom]	***	***	***	55	113	171	196	200	197	182	90	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	1375 / 539			492 / 579			17 / 715			764 / 676		
Iot [Pp/Tp]	255			85			2			113		
Avs E[Avm<200]	***			339			593			***		
Lower ultrahyperarid [4]							Upper ultrahyperarid [1]					
Lower hyperarid [1]							Weak upper arid [2]					
Strong lower semiarid [1]							Weak lower semiarid [1]					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp):	7.31
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]		5.67
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]		5.98
+ Hyperoceanic (-20<CI<20)		
CI of Currey (1974) [CI=Sp/(1+Lat/3)]		0.70
+ Oceanic (0.6<CI<1.1)		
Rainfall Index of Lang (1925) [R=P/T]		12.67
+ Steppic (40>R>0)		
Aridity Index of Martonne (1926) [Ia=P/(T+10)]		8.57
+ Arid -steppic- (15>Ia>5)		
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]		43.22
+ Semiarid (50>Q>30)		
I of Dantin & Revenga (1940) [DR=100*T/P]		7.89
+ Extremely arid (DR>6)		
Aridity Index of UNEP [I=P/PE]		0.26
+ Semiarid (0.5>Im>0.2)		
Potential Erosion I of Fournier (1960) [K=Pi ² /P]		11.92
+ Very low (K<60)		

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate

- + Climate
- + Region
- + Thermic type: 2. Macrothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.17	0.15	0.10	0.06	0.02	0.00	0.00	0.00	0.01	0.08	0.18	0.23
T-E ratio	7.93	7.94	8.28	8.60	9.16	10.02	10.94	11.22	10.89	10.26	9.24	8.37
Precipitation-effectiveness: 10.06						Temperature-efficiency						112.86
Moisture Index [MI=100*(P-PE)/PE]												-73.63
+ E.Dry (-110<MI<-66.7)												
Index of dryness [DI=100*d/PE]												73.63
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												0.00
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												1004.50
+ Forth mesothermic (997<PE<1440)												

