

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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PUERTO DE LA CRUZ -TENERIFE- (ESP S.C.TENERIFE) Altitude: 50 m.

Latitude: 28° 23'N Longitude: 16° 37'W

Temperature observation period.: 1944-1969 (26)

Rainfall observation period....: 1944-1969 (26)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	17.00	20.40	13.50	23.40	10.70	56.0	47.87
Feb.	17.30	20.90	13.70	24.50	11.50	29.0	48.04
Mar.	17.90	21.50	14.20	25.40	11.60	37.0	60.45
Apr.	18.20	21.80	14.60	25.70	12.70	24.0	65.05
May.	19.50	23.40	15.70	26.90	13.30	9.0	82.34
Jun.	20.80	24.60	17.00	27.20	15.20	3.0	93.61
Jul.	21.90	25.60	18.20	28.10	16.60	1.0	106.23
Aug.	22.90	26.50	19.30	28.90	17.70	2.0	111.83
Sep.	22.50	26.30	18.80	28.50	17.20	7.0	98.19
Oct.	22.00	25.70	18.30	29.20	16.50	23.0	89.08
Nov.	20.10	23.70	16.60	26.90	14.10	56.0	67.54
Dec.	17.80	21.20	14.30	24.40	12.10	47.0	52.20
Year	19.82	23.47	16.18	26.59	14.10	294	922.43

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	537
Compensated thermicity index.....(Itc):	516
Simple continentality index.....(Ic):	5.9
Diurnality index.....(Id):	7.7
Annual ombrothermic index.....(Io):	1.24
Monthly estival ombrothermic index.....(Ios1):	0.05
Bimonthly estival ombrothermic index.....(Ios2):	0.07
Threemonthly estival ombrothermic index.....(Ios3):	0.09
Fourmonthly estival ombrothermic index.....(Ios4):	0.18
Annual ombro-evaporation index.....(Ioe):	0.32
Annual positive temperature.....(Tp):	2379
Annual negative temperature.....(Tn):	-0
Estival temperature.....(Ts):	656
Positive precipitation.....(Pp):	294

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0°
Months	0	4	3	5	0

Latitudinal Belt...: Subtropical

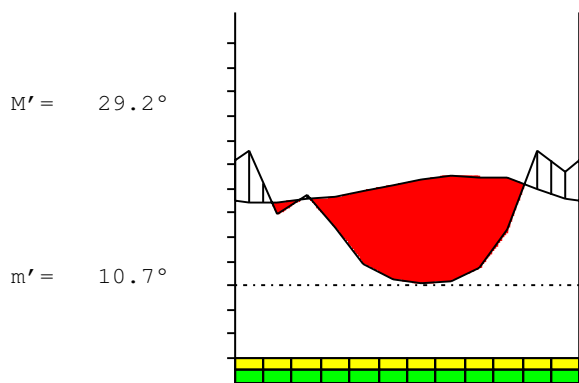
Continentalty.....: Hyperoceanic - High Euhyperoceanic

Bioclimate.....: MEDITERRANEAN XERIC-OCEANIC

Bioclimatic belt...: LOW INFRAMEDITERRANEAN LOW SEMIARID

PUERTO DE LA CRUZ -TENERIFE- (ESP S.C.TENERIFE) 50 m

P= 294 28° 23'N 16° 37'W 26/26 y.
 T= 19.8 ° Ic= 5.9 Tp= 2379 Tn= -0
 m= 13.5 ° M= 20.4 ° Itc= 516 Io= 1.2



MEDITERRANEAN XERIC-OCEANIC
LOW INFRAMEDITERRANEAN LOW SEMIARID

WATER INDEX CARD PUERTO DE LA CRUZ -TENERIFE- (ESP S.C.TENERIFE)

Altitude: 50 m. Latitude: 28° 23'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	17.0	48	56	8	8	48	0	0	0	0.1
Feb.	17.3	48	29	-8	0	37	11	0	0	-0.3
Mar.	17.9	60	37	0	0	37	23	0	0	-0.3
Apr.	18.2	65	24	0	0	24	41	0	0	-0.6
May.	19.5	82	9	0	0	9	73	0	0	-0.8
Jun.	20.8	94	3	0	0	3	91	0	0	-0.9
Jul.	21.9	106	1	0	0	1	105	0	0	-0.9
Aug.	22.9	112	2	0	0	2	110	0	0	-0.9
Sep.	22.5	98	7	0	0	7	91	0	0	-0.9
Oct.	22.0	89	23	0	0	23	66	0	0	-0.7
Nov.	20.1	68	56	0	0	56	12	0	0	-0.1
Dec.	17.8	52	47	0	0	47	5	0	0	0.0
Year	19.8	922	294	*	*	294	628	0	0	*

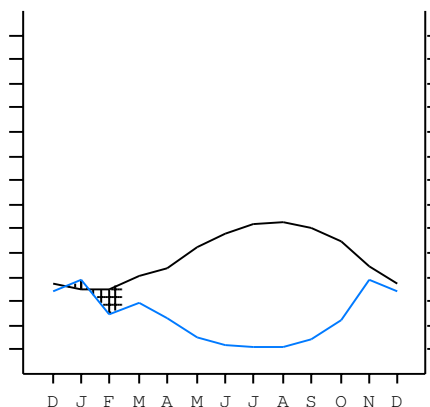
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

PUERTO DE LA CRUZ -TENERIFE- (ESP S.C.TENERIFE)

28°23'N 16°37'W 50 m 26/26 y.

T= 19.8 Ic= 5.9 **MEDITERRANEAN XERIC-OCEANIC**
 m= 13.5 Tp= 2379 **LOW INFRAMEDITERRANEAN**
 M= 20.4 Tn= -0 **LOW SEMIARID**
 M' = 29.2 Itc= 516
 m' = 10.7 Io= 1.2
 P= 294 mm ———
 PE= 922 mm ———

	Imbibing	12 Dec.
■	Saturation	
▣	Reserve Use	9 Jan.
□	Deficit	13 Feb.



PUERTO DE LA CRUZ -TENERIFE- (ESP S.C.TENERIFE)

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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): 92
Coldest semester of the year.....(Psw): 202
Warmest four months period of the year.....(Pcm1): 33
Following warmest four months period.....(Pcm2): 188
Positive precipitation dryest 3 months.....(Ppd): 6
Positive precipitation dryest 2 months.....(Ppd2): 3
Positive precipitation dryest 1 month.....(Ppd1): 1
Positive precipitation warmest 3 months.....(Pps): 32
Positive precipitation warmest 2 months.....(Pps2): 9
Positive precipitation warmest 1 month.....(Pps1): 2
Positive precipitation coldest 3 months.....(Ppw): 132
Positive precipitation coldest 2 months.....(Ppw2): 85
Positive precipitation coldest 1 month.....(Ppw1): 56

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	132	70	6	86

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 22.9
Average coldest month [T].....(Tmin): 17.0
Maximum temp. warmest month [M].....(Tmmax): 26.5
Minimum temp. coldest month [m].....(Tmmin): 13.5
Absolute Max.temp. warmest month [M'].....(Tamax): 29.2
Absolute Min.temp. coldest month [m'].....(Tamin): 10.7
First warmest contrasted month [M].....(Tcmax): 23.4 (5)
First coldest contrasted month [m].....(Tcmin): 15.7 (5)
Estival temperature.....(Ts): 656
Positive temperature dryest 3 months.....(Tpd): 656
Positive temperature dryest 2 months.....(Tpd2): 448
Positive temperature dryest 1 month.....(Tpd1): 219
Positive temperature warmest 3 months.....(Tps): 674
Positive temperature warmest 2 months.....(Tps2): 454
Positive temperature warmest 1 month.....(Tps1): 229
Positive temperature coldest 3 months.....(Tpw): 521
Positive temperature coldest 2 months.....(Tpw2): 343
Positive temperature coldest 1 month.....(Tpw1): 170

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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): 3.14
 Mediterranean index of July.[PE/P].....(Im1): 106.23
 Mediterranean index of July & August.....(Im2): 72.69
 Mediterranean index of June, July & August....(Im3): 51.94

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	470	560	290	370	240	90	30	10	20	70	230	560
Tp	178	170	173	179	182	195	208	219	229	225	220	201
Io (Iom)	2.64	3.29	1.68	2.07	1.32	0.46	0.14	0.05	0.09	0.31	1.05	2.79
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	1320 / 521			700 / 556			60 / 656			860 / 646		
Io (Iot)	2.534			1.259			0.091			1.331		
Semesters	December-May						June-November					
Pp(x10)/Tp	2020 / 1077						920 / 1302					
Io (Iosm)	1.876						0.707					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 5.90
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 0.70
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 2.15
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.56
 + Hyperoceanic (0<CI<0.6)
 Rainfall Index of Lang (1925) [R=P/T]: 14.83
 + Steppic (40>R>0)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 9.86
 + Arid -steppic- (15>Ia>5)
 I of Emberger (1930) [Q=100*P/(Tmmax²-Tmmin²)]: 56.54
 + Subhumid (90>Q>50)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 6.74
 + Extremely arid (DR>6)
 Aridity Index of UNEP [I=P/PE]: 0.32
 + Semiarid (0.5>Im>0.2)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 10.67
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)

- + Climate: A. Warm and temperate warm
- + Region: 5. Bixeric (Bixeric)
- + Thermic type: 2. Macrothermic

Thorntthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.24	0.11	0.15	0.09	0.03	0.01	0.00	0.01	0.02	0.08	0.22	0.19
T-E ratio	7.65	7.78	8.05	8.19	8.77	9.36	9.85	10.30	10.12	9.90	9.05	8.01
Precipitation-effectiveness: 11.37						Temperature-efficiency: 107.05						
Moisture Index [MI=100*(P-PE)/PE]: -68.13 + E.Dry (-110<MI<-66.7) Index of dryness [DI=100*d/PE]: 68.12 + Strong deficit (33.3<DI) Index of humidity [HI=100*s/PE]: 0.00 + No surplus (0<HI<10) Potential Evapotranspiration PE: 922.43 + Third mesothermic (855<PE<997)												

