

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

VILASANTAR (ESP LA CORUÑA)

Altitude: 410 m.

Latitude: 43°3'N Longitude: 8°6'W

Temperature observation period.: 1952-1969 (18)

Rainfall observation period....: 1952-1969 (18)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	7.10	11.70	2.60	16.70	-3.80	194.0	21.18
Feb.	8.20	13.80	2.70	20.00	-4.10	168.0	25.66
Mar.	9.80	15.70	3.80	22.60	-2.10	188.0	39.87
Apr.	10.40	16.90	4.00	25.00	-1.50	130.0	47.15
May.	13.60	20.70	6.40	29.20	0.00	111.0	74.15
Jun.	15.60	22.80	8.30	32.20	2.70	68.0	89.39
Jul.	17.70	25.50	9.80	33.50	4.70	29.0	105.47
Aug.	17.30	25.40	9.30	33.50	3.80	53.0	95.35
Sep.	16.00	23.50	8.50	31.20	2.20	101.0	74.96
Oct.	13.50	20.20	6.80	27.50	0.30	132.0	55.39
Nov.	9.60	15.10	4.00	20.80	-2.50	207.0	30.86
Dec.	7.40	12.20	2.60	18.10	-4.30	212.0	21.20
Year	12.18	18.63	5.73	25.86	-0.38	1593	680.64

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	265
Compensated thermicity index.....(Itc):	265
Simple continentality index.....(Ic):	10.6
Diurnality index.....(Id):	16.1
Annual ombrothermic index.....(Io):	10.90
Monthly estival ombrothermic index.....(Ios1):	1.64
Bimonthly estival ombrothermic index.....(Ios2):	2.34
Threemonthly estival ombrothermic index.....(Ios3):	2.96
Fourmonthly estival ombrothermic index.....(Ios4):	4.07
Annual ombro-evaporation index.....(Ioe):	0.45
Annual positive temperature.....(Tp):	1462
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	506
Positive precipitation.....(Pp):	1593

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	10	1	1	0	0

Latitudinal Belt...: High eutemperate

Continentality.....: Hyperoceanic - Low Subhyperoceanic

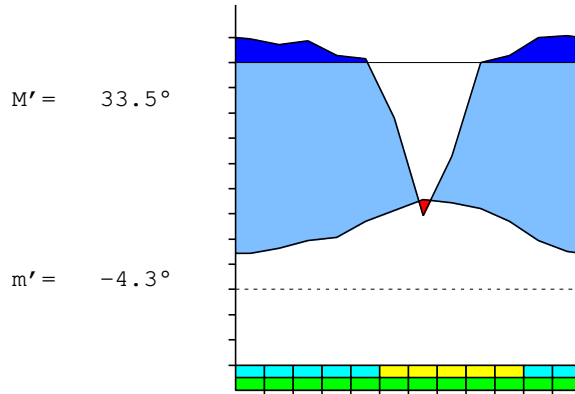
Bioclimate(Variant): TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)

Bioclimatic Belt...: LOW MESOTEMPERATE UPPER HUMID

VILASANTAR (ESP LA CORUÑA)

410 m

P= 1593 43° 3'N 8° 6'W 18/18 y.
 T= 12.2° Ic= 10.6 Tp= 1462 Tn= 0
 m= 2.6° M= 11.7° Itc= 265 Io= 10.9



TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)
 LOW MESOTEMPERATE UPPER HUMID

WATER INDEX CARD VILASANTAR (ESP LA CORUÑA)
 Altitude: 410 m. Latitude: 43° 3'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	7.1	21	194	0	100	21	0	173	157	8.1
Feb.	8.2	26	168	0	100	26	0	142	149	5.5
Mar.	9.8	40	188	0	100	40	0	148	149	3.7
Apr.	10.4	47	130	0	100	47	0	83	116	1.7
May.	13.6	74	111	0	100	74	0	37	76	0.4
Jun.	15.6	89	68	-21	79	89	0	0	38	-0.2
Jul.	17.7	105	29	-76	2	105	0	0	19	-0.7
Aug.	17.3	95	53	-2	0	55	40	0	10	-0.4
Sep.	16.0	75	101	26	26	75	0	0	5	0.3
Oct.	13.5	55	132	74	100	55	0	3	4	1.3
Nov.	9.6	31	207	0	100	31	0	176	90	5.7
Dec.	7.4	21	212	0	100	21	0	191	140	9.0
Year	12.2	681	1593	*	*	640	40	953	953	*

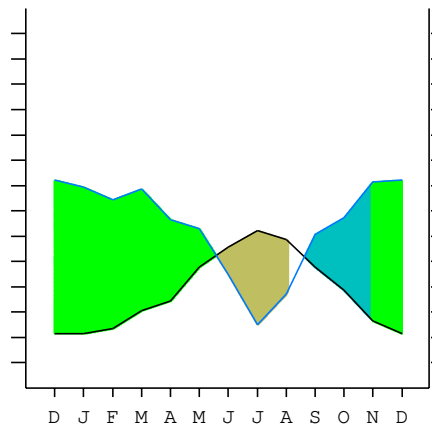
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

VILASANTAR (ESP LA CORUÑA)

43°3'N 8°6'W 410 m 18/18 y.

T= 12.2 Ic= 10.6 TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)
 m= 2.6 Tp= 1462 LOW MESOTEMPERATE
 M= 11.7 Tn= 0 UPPER HUMID
 M' = 33.5 Itc= 265
 m' = -4.3 Io= 10.9
 P= 1593 mm ———
 PE= 681 mm ———

Imbibing	19 Aug.
Saturation	29 Oct.
Reserve Use	19 May.
Deficit	2 Aug.



VILASANTAR (ESP LA CORUÑA)

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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. High eutemperate
 + Thermic type: B. Temperate
 + Thermic subtype: 4. Temperate
 Bioclimatic types [C4b.3b.7a]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 4. HYPEROCEANIC
 + Bioclimatic variant .: b. SUBMEDITERRANEAN
 + Thermic type.....: 3. MESOTEMPERATE
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 7. HUMID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: Texe (Sbm) .Mte.Hum

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 494
 Coldest semester of the year.....(Psw): 1099
 Warmest four months period of the year.....(Pcm1): 251
 Following warmest four months period.....(Pcm2): 745
 Positive precipitation dryest 3 months.....(Ppd): 150
 Positive precipitation dryest 2 months.....(Ppd2): 82
 Positive precipitation dryest 1 month.....(Ppd1): 29
 Positive precipitation warmest 3 months.....(Pps): 183
 Positive precipitation warmest 2 months.....(Pps2): 82
 Positive precipitation warmest 1 month.....(Pps1): 29
 Positive precipitation coldest 3 months.....(Ppw): 574
 Positive precipitation coldest 2 months.....(Ppw2): 406
 Positive precipitation coldest 1 month.....(Ppw1): 194

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	574	429	150	440

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 17.7
 Average coldest month [T].....(Tmin): 7.1
 Maximum temp. warmest month [M].....(Tmmax): 25.5
 Minimum temp. coldest month [m].....(Tmmin): 2.6
 Absolute Max.temp. warmest month [M'].....(Tamax): 33.5
 Absolute Min.temp. coldest month [m'].....(Tamin): -4.3
 First warmest contrasted month [M].....(Tcmax): 25.4 (8)
 First coldest contrasted month [m].....(Tcmin): 9.3 (8)
 Estival temperature.....(Ts): 506
 Positive temperature dryest 3 months.....(Tpd): 506
 Positive temperature dryest 2 months.....(Tpd2): 350
 Positive temperature dryest 1 month.....(Tpd1): 177
 Positive temperature warmest 3 months.....(Tps): 510
 Positive temperature warmest 2 months.....(Tps2): 350
 Positive temperature warmest 1 month.....(Tps1): 177
 Positive temperature coldest 3 months.....(Tpw): 227
 Positive temperature coldest 2 months.....(Tpw2): 145
 Positive temperature coldest 1 month.....(Tpw1): 71

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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.43
 Mediterranean index of July.[PE/P].....(Im1): 3.64
 Mediterranean index of July & August.....(Im2): 2.45
 Mediterranean index of June, July & August....(Im3): 1.93

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	2120	1940	1680	1880	1300	1110	680	290	530	1010	1320	2070
Tp	74	71	82	98	104	136	156	177	173	160	135	96
Io (Iom)	28.6	27.3	20.5	19.2	12.5	8.16	4.36	1.64	3.06	6.31	9.78	21.6
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	5740 / 227			4290 / 338			1500 / 506			4400 / 391		
Io (Iot)	25.29			12.69			2.964			11.25		
Semesters	December-May						June-November					
Pp(x10)/Tp	10030 / 565						5900 / 897					
Io (Iosm)	17.75						6.577					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 15930/1462=10.90 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	2120	1940	1680	1880	1300	1110	680	290	530	1010	1320	2070
Tp [T*10]	74	71	82	98	104	136	156	177	173	160	135	96
Iom [Pp/Tp]	\$\$	\$\$	\$\$	\$\$	\$\$	816	436	164	306	631	978	\$\$
Avm [200-Iom]	***	***	***	***	***	***	***	36	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	5740 / 227			4290 / 338			1500 / 506			4400 / 391		
Iot [Pp/Tp]	2529			1269			296			1125		
Avs E[Avm<200]	***			***			***			***		
Strong upper semiarid [1]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 10.60
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 6.00
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 8.55
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.69
 + Oceanic (0.6<CI<1.1)
 Rainfall Index of Lang (1925) [R=P/T]: 130.75
 + Temperate humid (160>R>100)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 71.81
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 247.56
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.76
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 2.34
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 28.21
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: A. Warm and temperate warm
 + Region: 3. Termoxeroteric (Mediterranean warm)
 + Thermic type: 4. Mesothermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	1.29	1.06	1.13	0.74	0.56	0.31	0.11	0.22	0.47	0.68	1.27	1.41
T-E ratio	3.19	3.69	4.41	4.68	6.12	7.02	7.97	7.78	7.20	6.07	4.32	3.33
Precipitation-effectiveness: 92.32						Temperature-efficiency: 65.79						
Moisture Index [MI=100*(P-PE)/PE]: 134.04 + A.Extremely humid (MI>100)												
Index of dryness [DI=100*d/PE]: 5.91 + No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]: 139.94 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 680.64 + First mesothermic (570<PE<712)												

