

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

Prof.Dr. Salvador Rivas-Martinez

(Adapted to Synoptical Table 30/08/2017)

A CORUÑA (ESP LA CORUÑA)

Altitude: 57 m.

Latitude: 43°23'N Longitude: 8°22'W

Temperature observation period.: 1964-1994 (31)

Rainfall observation period....: 1964-1994 (31)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	9.73	12.78	6.67	20.56	-2.22	111.8	27.42
Feb.	9.73	12.78	6.67	23.89	-2.22	83.8	27.76
Mar.	11.11	14.44	7.78	26.67	-1.11	99.1	41.47
Apr.	11.95	15.00	8.89	29.44	1.67	81.3	50.36
May.	14.17	17.22	11.11	30.00	4.44	55.9	71.69
Jun.	16.67	20.00	13.33	30.56	7.78	38.1	91.16
Jul.	18.06	21.67	14.44	35.00	9.44	33.0	102.62
Aug.	18.61	22.22	15.00	33.89	8.89	43.2	99.50
Sep.	17.50	21.11	13.89	34.44	6.11	71.1	79.21
Oct.	15.00	18.33	11.67	31.11	3.89	99.1	58.48
Nov.	11.95	15.00	8.89	25.00	1.11	114.3	36.42
Dec.	10.28	13.33	7.22	20.56	-1.11	132.1	28.12
Year	13.73	16.99	10.46	28.43	3.06	963	714.21

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	332
Compensated thermicity index.....(Itc):	332
Simple continentality index.....(Ic):	8.9
Diurnality index.....(Id):	7.2
Annual ombrothermic index.....(Io):	5.84
Monthly estival ombrothermic index.....(Ios1):	1.83
Bimonthly estival ombrothermic index.....(Ios2):	2.08
Three monthly estival ombrothermic index.....(Ios3):	2.14
Four monthly estival ombrothermic index.....(Ios4):	2.52
Annual ombro-evaporation index.....(Ioe):	0.55
Annual positive temperature.....(Tp):	1648
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	533
Positive precipitation.....(Pp):	963

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	8	3	1	0	0

Latitudinal Belt...: High eutemperate

Continentalty.....: Hyperoceanic - High Subhyperoceanic

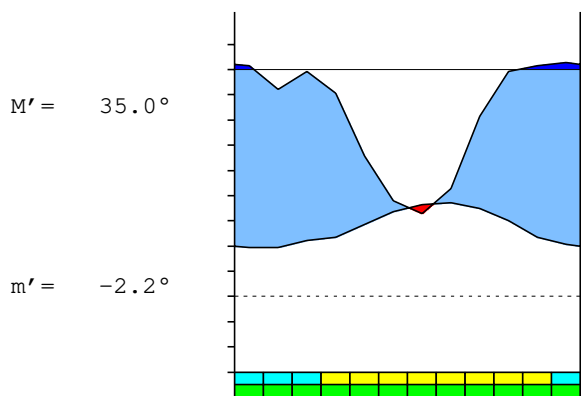
Bioclimate(Variant): TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)

Bioclimatic Belt...: UPPER THERMOTEMPERATE UPPER SUBHUMID

A CORUÑA (ESP LA CORUÑA)

57 m

P= 963 43° 23'N 8° 22'W 31/31 y.
 T= 13.7° Ic= 8.9 Tp= 1648 Tn= 0
 m= 6.7° M= 12.8° Itc= 332 Io= 5.8



TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)
 UPPER THERMOTEMPERATE UPPER SUBHUMID

WATER INDEX CARD

A CORUÑA (ESP LA CORUÑA)

Altitude: 57 m.

Latitude: 43° 23'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	9.7	27	112	0	100	27	0	84	71	3.0
Feb.	9.7	28	84	0	100	28	0	56	63	2.0
Mar.	11.1	41	99	0	100	41	0	58	60	1.3
Apr.	11.9	50	81	0	100	50	0	31	46	0.6
May.	14.2	72	56	-16	84	72	0	0	23	-0.2
Jun.	16.7	91	38	-53	31	91	0	0	11	-0.5
Jul.	18.1	103	33	-31	0	64	38	0	6	-0.6
Aug.	18.6	99	43	0	0	43	56	0	3	-0.5
Sep.	17.5	79	71	0	0	71	8	0	1	-0.1
Oct.	15.0	58	99	41	41	58	0	0	1	0.6
Nov.	11.9	36	114	59	100	36	0	19	10	2.1
Dec.	10.3	28	132	0	100	28	0	104	57	3.6
Year	13.7	714	963	*	*	611	103	351	351	*

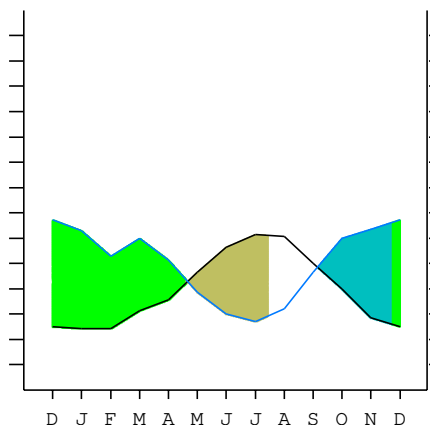
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

A CORUÑA (ESP LA CORUÑA)

43°23'N 8°22'W 57 m 31/31 y.

T= 13.7 Ic= 8.9 TEMPERATE HYPEROCEANIC (SUBMEDITERRANEAN)
 m= 6.7 Tp= 1648 UPPER THERMOTEMPERATE
 M= 12.8 Tn= 0 UPPER SUBHUMID
 M' = 35.0 Itc= 332
 m' = -2.2 Io= 5.8
 P= 963 mm ———
 PE= 714 mm ———

Imbibing	5 Sep.
Saturation	23 Nov.
Reserve Use	20 Apr.
Deficit	14 Jul.



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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continentality Index [A3a]
 + Type: A. Hyperoceanic
 + Subtype: 3. Subhyperoceanic
 + Variant: a. High

Thermic types [B1.B4]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 1. High eutemperate
 + Thermic type: B. Temperate
 + Thermic subtype: 4. Temperate

Bioclimatic types [C4b.2a.6a]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 4. HYPEROCEANIC
 + Bioclimatic variant .: b. SUBMEDITERRANEAN
 + Thermic type.....: 2. THERMOTEMPERATE
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: Texe (Sbm).Tte.Shu

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 340
 Coldest semester of the year.....(Psw): 622
 Warmest four months period of the year.....(Pcm1): 185
 Following warmest four months period.....(Pcm2): 457
 Positive precipitation dryest 3 months.....(Ppd): 114
 Positive precipitation dryest 2 months.....(Ppd2): 71
 Positive precipitation dryest 1 month.....(Ppd1): 33
 Positive precipitation warmest 3 months.....(Pps): 147
 Positive precipitation warmest 2 months.....(Pps2): 76
 Positive precipitation warmest 1 month.....(Pps1): 43
 Positive precipitation coldest 3 months.....(Ppw): 328
 Positive precipitation coldest 2 months.....(Ppw2): 196
 Positive precipitation coldest 1 month.....(Ppw1): 112

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	327	236	114	284

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 18.6
 Average coldest month [T].....(Tmin): 9.7
 Maximum temp. warmest month [M].....(Tmmax): 22.2
 Minimum temp. coldest month [m].....(Tmmin): 6.7
 Absolute Max.temp. warmest month [M'].....(Tamax): 35.0
 Absolute Min.temp. coldest month [m'].....(Tamin): -2.2
 First warmest contrasted month [M].....(Tcmax): 21.7 (7)
 First coldest contrasted month [m].....(Tcmin): 14.4 (7)
 Estival temperature.....(Ts): 533
 Positive temperature dryest 3 months.....(Tpd): 533
 Positive temperature dryest 2 months.....(Tpd2): 347
 Positive temperature dryest 1 month.....(Tpd1): 181
 Positive temperature warmest 3 months.....(Tps): 542
 Positive temperature warmest 2 months.....(Tps2): 367
 Positive temperature warmest 1 month.....(Tps1): 186
 Positive temperature coldest 3 months.....(Tpw): 297
 Positive temperature coldest 2 months.....(Tpw2): 195
 Positive temperature coldest 1 month.....(Tpw1): 97

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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.74
 Mediterranean index of July.[PE/P].....(Im1): 3.11
 Mediterranean index of July & August.....(Im2): 2.65
 Mediterranean index of June, July & August....(Im3): 2.57

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	1321	1118	838	991	813	559	381	330	432	711	991	1143
Tp	103	97	97	111	120	142	167	181	186	175	150	120
Io (Iom)	12.9	11.5	8.61	8.92	6.80	3.94	2.29	1.83	2.32	4.06	6.61	9.56
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	3277 / 297			2363 / 372			1143 / 533			2845 / 445		
Io (Iot)	11.02			6.347			2.143			6.400		
Semesters	December-May						June-November					
Pp(x10)/Tp	5640 / 670						3988 / 978					
Io (Iosm)	8.422						4.078					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 9628/1648=5.84 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	1321	1118	838	991	813	559	381	330	432	711	991	1143
Tp [T*10]	103	97	97	111	120	142	167	181	186	175	150	120
Iom [Pp/Tp]	\$\$	\$\$	861	892	680	394	229	183	232	406	661	956
Avm [200-Iom]	***	***	***	***	***	***	***	17	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	3277 / 297			2363 / 372			1143 / 533			2845 / 445		
Iot [Pp/Tp]	1102			635			214			640		
Avs E[Avm<200]	***			***			***			***		
Weak upper semiarid [1]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp):	8.88
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]		1.58
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]		4.81
+ Hyperoceanic (-20<CI<20)		
CI of Currey (1974) [CI=Sp/(1+Lat/3)]		0.57
+ Hyperoceanic (0<CI<0.6)		
Rainfall Index of Lang (1925) [R=P/T]		70.12
+ Temperate warm (100>R>60)		
Aridity Index of Martonne (1926) [Ia=P/(T+10)]		40.57
+ Humid (60>Ia>30)		
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]		214.32
+ Humid (Q>90)		
I of Dantin & Revenga (1940) [DR=100*T/P]		1.43
+ Humid (2>DR>0)		
Aridity Index of UNEP [I=P/PE]		1.35
+ Humid (I>0.65)		
Potential Erosion I of Fournier (1960) [K=Pi ² /P]		18.12
+ 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	0.64	0.46	0.53	0.42	0.26	0.16	0.13	0.17	0.30	0.47	0.61	0.75
T-E ratio	4.38	4.38	5.00	5.38	6.38	7.50	8.13	8.37	7.88	6.75	5.38	4.63
Precipitation-effectiveness: 48.94						Temperature-efficiency						74.14
Moisture Index [MI=100*(P-PE)/PE]												34.81
+ B1.Humid low-humid (20<MI<40)												
Index of dryness [DI=100*d/PE]												14.39
+ No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]												49.20
+ Strong surplus (20<HI)												
Potential Evapotranspiration PE												714.21
+ Second mesothermic (712<PE<855)												

