

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

PONTEVEDRA (ESP PONTEVEDRA)

Altitude: 19 m.

Latitude: 42°26'N Longitude: 8°38'W

Temperature observation period.: 1931-1970 (40)

Rainfall observation period....: 1931-1970 (40)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	9.20	12.40	5.90	17.10	0.00	217.0	23.22
Feb.	10.10	13.90	6.30	18.50	0.70	153.0	26.65
Mar.	12.30	16.30	8.20	22.10	3.30	196.0	44.77
Apr.	14.20	18.80	9.50	24.70	5.70	126.0	60.18
May.	15.60	20.30	10.90	28.50	6.70	134.0	77.78
Jun.	18.60	23.80	13.50	31.60	9.40	56.0	101.63
Jul.	20.20	25.60	14.80	32.80	11.70	40.0	115.70
Aug.	20.50	25.90	15.10	32.80	11.70	42.0	109.93
Sep.	18.20	23.00	13.40	29.70	8.90	82.0	80.60
Oct.	14.90	19.10	10.60	25.00	5.60	128.0	54.80
Nov.	11.90	15.70	8.10	19.80	2.40	194.0	33.95
Dec.	9.50	12.70	6.30	16.90	0.20	227.0	23.45
Year	14.60	18.96	10.22	24.96	5.52	1595	752.66

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	329
Compensated thermicity index.....(Itc):	329
Simple continentality index.....(Ic):	11.3
Diurnality index.....(Id):	10.8
Annual ombrothermic index.....(Io):	9.10
Monthly estival ombrothermic index.....(Ios1):	1.98
Bimonthly estival ombrothermic index.....(Ios2):	2.01
Three monthly estival ombrothermic index.....(Ios3):	2.33
Four monthly estival ombrothermic index.....(Ios4):	3.63
Annual ombro-evaporation index.....(Ioe):	0.43
Annual positive temperature.....(Tp):	1752
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	593
Positive precipitation.....(Pp):	1595

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	9	2	1	0	0

Latitudinal Belt...: Low eutemperate

Continentalty.....: Oceanic - High Semihyperoceanic

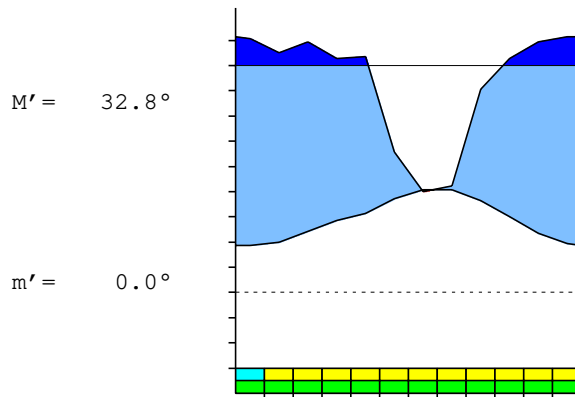
Bioclimate(Variant): TEMPERATE OCEANIC (SUBMEDITERRANEAN)

Bioclimatic Belt...: UPPER THERMOTEMPERATE UPPER HUMID

PONTEVEDRA (ESP PONTEVEDRA)

19 m

P= 1595 42° 26'N 8° 38'W 40/40 y.
 T= 14.6° Ic= 11.3 Tp= 1752 Tn= 0
 m= 5.9° M= 12.4° Itc= 329 Io= 9.1



TEMPERATE OCEANIC (SUBMEDITERRANEAN)
 UPPER THERMOTEMPERATE UPPER HUMID

WATER INDEX CARD

PONTEVEDRA (ESP PONTEVEDRA)

Altitude: 19 m.

Latitude: 42° 26'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	9.2	23	217	0	100	23	0	194	165	8.3
Feb.	10.1	27	153	0	100	27	0	126	146	4.7
Mar.	12.3	45	196	0	100	45	0	151	148	3.3
Apr.	14.2	60	126	0	100	60	0	66	107	1.0
May.	15.6	78	134	0	100	78	0	56	82	0.7
Jun.	18.6	102	56	-46	54	102	0	0	41	-0.4
Jul.	20.2	116	40	-54	0	94	21	0	20	-0.6
Aug.	20.5	110	42	0	0	42	68	0	10	-0.6
Sep.	18.2	81	82	1	1	81	0	0	5	0.0
Oct.	14.9	55	128	73	75	55	0	0	3	1.3
Nov.	11.9	34	194	25	100	34	0	135	69	4.7
Dec.	9.5	23	227	0	100	23	0	204	136	8.6
Year	14.6	753	1595	*	*	663	89	932	932	*

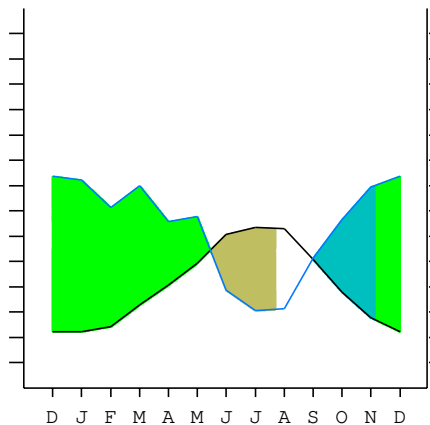
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

PONTEVEDRA (ESP PONTEVEDRA)

42°26'N 8°38'W 19 m 40/40 y.

T= 14.6 Ic= 11.3 TEMPERATE OCEANIC (SUBMEDITERRANEAN)
 m= 5.9 Tp= 1752 UPPER THERMOTEMPERATE
 M= 12.4 Tn= 0 UPPER HUMID
 M' = 32.8 Itc= 329
 m' = 0.0 Io= 9.1
 P= 1595 mm ———
 PE= 753 mm ———

Imbibing	30 Aug.
Saturation	5 Nov.
Reserve Use	17 May.
Deficit	22 Jul.



PONTEVEDRA (ESP PONTEVEDRA)

Latitude: 42°26'N Longitude: 8°38'W Altitude: 19 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [B1a]
 + Type: B. Oceanic
 + Subtype: 1. Semihyperoceanic
 + Variant: a. High

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

Bioclimatic types [C3b.2a.7a]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 3. OCEANIC
 + Bioclimatic variant .: b. SUBMEDITERRANEAN
 + Thermic type.....: 2. THERMOTEMPERATE
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 7. HUMID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: Teco (Sbm).Tte.Hum

PONTEVEDRA (ESP PONTEVEDRA)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 482
 Coldest semester of the year.....(Psw): 1113
 Warmest four months period of the year.....(Pcm1): 220
 Following warmest four months period.....(Pcm2): 766
 Positive precipitation dryest 3 months.....(Ppd): 138
 Positive precipitation dryest 2 months.....(Ppd2): 82
 Positive precipitation dryest 1 month.....(Ppd1): 40
 Positive precipitation warmest 3 months.....(Pps): 138
 Positive precipitation warmest 2 months.....(Pps2): 82
 Positive precipitation warmest 1 month.....(Pps1): 42
 Positive precipitation coldest 3 months.....(Ppw): 597
 Positive precipitation coldest 2 months.....(Ppw2): 444
 Positive precipitation coldest 1 month.....(Ppw1): 217

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	597	456	138	404

Seasonal rainfall rhythms: W > P > F > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 20.5
 Average coldest month [T].....(Tmin): 9.2
 Maximum temp. warmest month [M].....(Tmmax): 25.9
 Minimum temp. coldest month [m].....(Tmmin): 5.9
 Absolute Max.temp. warmest month [M'].....(Tamax): 32.8
 Absolute Min.temp. coldest month [m'].....(Tamin): 0.0
 First warmest contrasted month [M].....(Tcmax): 25.6 (7)
 First coldest contrasted month [m].....(Tcmin): 14.8 (7)
 Estival temperature.....(Ts): 593
 Positive temperature dryest 3 months.....(Tpd): 593
 Positive temperature dryest 2 months.....(Tpd2): 407
 Positive temperature dryest 1 month.....(Tpd1): 202
 Positive temperature warmest 3 months.....(Tps): 593
 Positive temperature warmest 2 months.....(Tps2): 407
 Positive temperature warmest 1 month.....(Tps1): 205
 Positive temperature coldest 3 months.....(Tpw): 288
 Positive temperature coldest 2 months.....(Tpw2): 187
 Positive temperature coldest 1 month.....(Tpw1): 92

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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											
Agelid.....[m' > 0] (Pf)		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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.47
 Mediterranean index of July.[PE/P].....(Im1): 2.89
 Mediterranean index of July & August.....(Im2): 2.75
 Mediterranean index of June, July & August....(Im3): 2.37

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	2270	2170	1530	1960	1260	1340	560	400	420	820	1280	1940
Tp	95	92	101	123	142	156	186	202	205	182	149	119
Io (Iom)	23.9	23.6	15.1	15.9	8.87	8.59	3.01	1.98	2.05	4.51	8.59	16.3
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	5970 / 288			4560 / 421			1380 / 593			4040 / 450		
Io (Iot)	20.73			10.83			2.327			8.978		
Semesters	December-May						June-November					
Pp(x10)/Tp	10530 / 709						5420 / 1043					
Io (Iosm)	14.85						5.197					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 15950/1752=9.10 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	2270	2170	1530	1960	1260	1340	560	400	420	820	1280	1940
Tp [T*10]	95	92	101	123	142	156	186	202	205	182	149	119
Iom [Pp/Tp]	\$\$	\$\$	\$\$	\$\$	887	859	301	198	205	451	859	\$\$
Avm [200-Iom]	***	***	***	***	***	***	***	2	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	5970 / 288			4560 / 421			1380 / 593			4040 / 450		
Iot [Pp/Tp]	2073			1083			233			898		
Avs E[Avm<200]	***			***			***			***		
Weak upper semiarid [1]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 11.30
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 8.07
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 10.24
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.75
 + Oceanic (0.6<CI<1.1)
 Rainfall Index of Lang (1925) [R=P/T]: 109.25
 + Temperate humid (160>R>100)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 64.84
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 250.79
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.92
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 2.12
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 32.31
 + 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	1.35	0.89	1.09	0.63	0.65	0.23	0.15	0.16	0.35	0.63	1.09	1.41
T-E ratio	4.14	4.55	5.54	6.39	7.02	8.37	9.09	9.23	8.19	6.70	5.35	4.27
Precipitation-effectiveness: 86.39						Temperature-efficiency: 78.84						
Moisture Index [MI=100*(P-PE)/PE]: 111.91 + A.Extremely humid (MI>100)												
Index of dryness [DI=100*d/PE]: 11.85 + No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]: 123.77 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 752.66 + Second mesothermic (712<PE<855)												

