

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

FISTERRA (ESP LA CORUÑA)

Altitude: 122 m.

Latitude: 42°53'N Longitude: 9°16'W

Temperature observation period.: 1937-1970 (34)

Rainfall observation period....: 1937-1970 (34)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPi
Jan.	9.90	12.30	7.60	16.30	2.60	104.0	27.01
Feb.	10.10	12.60	7.60	17.70	3.00	77.0	28.13
Mar.	11.70	14.50	9.00	21.60	5.40	93.0	43.12
Apr.	13.00	16.10	10.00	23.60	6.10	54.0	54.99
May.	14.50	18.10	11.00	26.80	7.00	61.0	72.25
Jun.	16.80	20.40	13.30	27.60	9.90	39.0	90.47
Jul.	18.30	22.00	14.50	31.60	11.20	20.0	102.95
Aug.	18.70	22.40	15.00	30.40	12.00	39.0	98.76
Sep.	17.70	21.20	14.10	27.80	11.00	57.0	79.16
Oct.	15.50	18.50	12.50	25.80	7.50	78.0	59.89
Nov.	12.70	14.90	10.50	19.80	6.40	126.0	38.47
Dec.	10.90	13.10	8.80	17.20	5.00	120.0	29.44
Year	14.15	17.17	11.16	23.85	7.26	868	724.64

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	341
Compensated thermicity index.....(Itc):	341
Simple continentality index.....(Ic):	8.8
Diurnality index.....(Id):	7.5
Annual ombrothermic index.....(Io):	5.11
Monthly estival ombrothermic index.....(Ios1):	1.09
Bimonthly estival ombrothermic index.....(Ios2):	1.59
Threemonthly estival ombrothermic index.....(Ios3):	1.82
Fourmonthly estival ombrothermic index.....(Ios4):	2.33
Annual ombro-evaporation index.....(Ioe):	0.51
Annual positive temperature.....(Tp):	1698
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	538
Positive precipitation.....(Pp):	868

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

Latitudinal Belt...: Low eutemperate

Continentalty.....: Hyperoceanic - High Subhyperoceanic

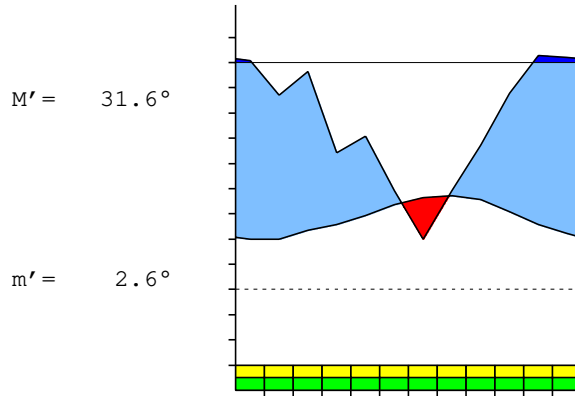
Bioclimate.....: MEDITERRANEAN PLUVISEASONAL-OCEANIC

Bioclimatic Belt...: LOW MESOMEDITERRANEAN UPPER SUBHUMID

FISTERRA (ESP LA CORUÑA)

122 m

P= 868 42° 53'N 9° 16'W 34/34 y.
 T= 14.1° Ic= 8.8 Tp= 1698 Tn= 0
 m= 7.6° M= 12.3° Itc= 341 Io= 5.1



MEDITERRANEAN PLUVISEASONAL-OCEANIC
 LOW MESOMEDITERRANEAN UPPER SUBHUMID

WATER INDEX CARD FISTERRA (ESP LA CORUÑA)
 Altitude: 122 m. Latitude: 42° 53'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	9.9	27	104	0	100	27	0	77	62	2.8
Feb.	10.1	28	77	0	100	28	0	49	55	1.7
Mar.	11.7	43	93	0	100	43	0	50	53	1.1
Apr.	13.0	55	54	-1	99	55	0	0	26	0.0
May.	14.5	72	61	-11	88	72	0	0	13	-0.1
Jun.	16.8	90	39	-51	36	90	0	0	7	-0.5
Jul.	18.3	103	20	-36	0	56	47	0	3	-0.8
Aug.	18.7	99	39	0	0	39	60	0	2	-0.6
Sep.	17.7	79	57	0	0	57	22	0	1	-0.2
Oct.	15.5	60	78	18	18	60	0	0	0	0.3
Nov.	12.7	38	126	82	100	38	0	6	3	2.2
Dec.	10.9	29	120	0	100	29	0	91	47	3.0
Year	14.1	725	868	*	*	596	129	272	272	*

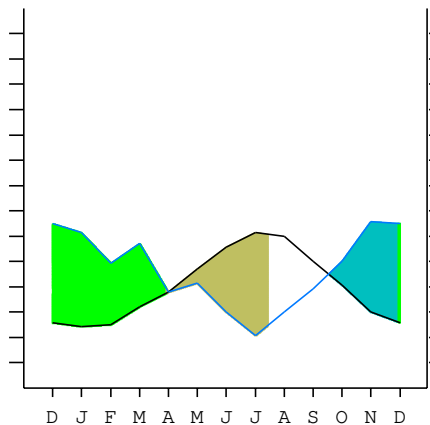
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

FISTERRA (ESP LA CORUÑA)

42°53'N 9°16'W 122 m 34/34 y.

T= 14.1 Ic= 8.8 MEDITERRANEAN PLUVISEASONAL-OCEANIC
 m= 7.6 Tp= 1698 LOW MESOMEDITERRANEAN
 M= 12.3 Tn= 0 UPPER SUBHUMID
 M' = 31.6 Itc= 341
 m' = 2.6 Io= 5.1
 P= 868 mm ———
 PE= 725 mm ———

Imbibing	17 Sep.
Saturation	29 Nov.
Reserve Use	30 Mar.
Deficit	14 Jul.



FISTERRA (ESP LA CORUÑA)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A3a]
 + Type: A. Hyperoceanic
 + Subtype: 3. Subhyperoceanic
 + 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 [B8.3b.6a]
 + Macrobioclimate: B. MEDITERRANEAN
 + Bioclimate: 8. PLUVISEASONAL-OCEANIC
 + Bioclimatic variant ..:
 + Thermic type.....: 3. MESOMEDITERRANEAN
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: Mehc.Mme.Shu

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 294
 Coldest semester of the year.....(Psw): 574
 Warmest four months period of the year.....(Pcm1): 155
 Following warmest four months period.....(Pcm2): 428
 Positive precipitation dryest 3 months.....(Ppd): 98
 Positive precipitation dryest 2 months.....(Ppd2): 59
 Positive precipitation dryest 1 month.....(Ppd1): 20
 Positive precipitation warmest 3 months.....(Pps): 116
 Positive precipitation warmest 2 months.....(Pps2): 59
 Positive precipitation warmest 1 month.....(Pps1): 39
 Positive precipitation coldest 3 months.....(Ppw): 301
 Positive precipitation coldest 2 months.....(Ppw2): 181
 Positive precipitation coldest 1 month.....(Ppw1): 104

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	301	208	98	261

Seasonal rainfall rhythms: W > F > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 18.7
 Average coldest month [T].....(Tmin): 9.9
 Maximum temp. warmest month [M].....(Tmmax): 22.4
 Minimum temp. coldest month [m].....(Tmmin): 7.6
 Absolute Max.temp. warmest month [M'].....(Tamax): 31.6
 Absolute Min.temp. coldest month [m'].....(Tamin): 2.6
 First warmest contrasted month [M].....(Tcmax): 22.0 (7)
 First coldest contrasted month [m].....(Tcmin): 14.5 (7)
 Estival temperature.....(Ts): 538
 Positive temperature dryest 3 months.....(Tpd): 538
 Positive temperature dryest 2 months.....(Tpd2): 351
 Positive temperature dryest 1 month.....(Tpd1): 183
 Positive temperature warmest 3 months.....(Tps): 547
 Positive temperature warmest 2 months.....(Tps2): 370
 Positive temperature warmest 1 month.....(Tps1): 187
 Positive temperature coldest 3 months.....(Tpw): 309
 Positive temperature coldest 2 months.....(Tpw2): 200
 Positive temperature coldest 1 month.....(Tpw1): 99

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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): 0.83
 Mediterranean index of July.[PE/P].....(Im1): 5.15
 Mediterranean index of July & August.....(Im2): 3.42
 Mediterranean index of June, July & August....(Im3): 2.98

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	1200	1040	770	930	540	610	390	200	390	570	780	1260
Tp	109	99	101	117	130	145	168	183	187	177	155	127
Io (Iom)	11.0	10.5	7.62	7.95	4.15	4.21	2.32	1.09	2.09	3.22	5.03	9.92
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	3010 / 309			2080 / 392			980 / 538			2610 / 459		
Io (Iot)	9.741			5.306			1.822			5.686		
Semesters	December-May						June-November					
Pp(x10)/Tp	5090 / 701						3590 / 997					
Io (Iosm)	7.261						3.601					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 8680/1698=5.11 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	1200	1040	770	930	540	610	390	200	390	570	780	1260
Tp [T*10]	109	99	101	117	130	145	168	183	187	177	155	127
Iom [Pp/Tp]	\$\$	\$\$	762	795	415	421	232	109	209	322	503	992
Avm [200-Iom]	***	***	***	***	***	***	***	91	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	3010 / 309			2080 / 392			980 / 538			2610 / 459		
Iot [Pp/Tp]	974			531			182			569		
Avs E[Avm<200]	***			***			***			***		
Strong lower semiarid [1]												

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin]	(Sp): 8.80
CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]	1.58
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]	4.76
+ Hyperoceanic (-20<CI<20)	
CI of Currey (1974) [CI=Sp/(1+Lat/3)]	0.58
+ Hyperoceanic (0<CI<0.6)	
Rainfall Index of Lang (1925) [R=P/T]	61.34
+ Temperate warm (100>R>60)	
Aridity Index of Martonne (1926) [Ia=P/(T+10)]	35.94
+ Humid (60>Ia>30)	
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]	195.50
+ Humid (Q>90)	
I of Dantin & Revenga (1940) [DR=100*T/P]	1.63
+ Humid (2>DR>0)	
Aridity Index of UNEP [I=P/PE]	1.20
+ Humid (I>0.65)	
Potential Erosion I of Fournier (1960) [K=Pi ² /P]	18.29
+ 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	0.58	0.42	0.49	0.26	0.28	0.16	0.07	0.15	0.24	0.36	0.66	0.66
T-E ratio	4.45	4.55	5.26	5.85	6.52	7.56	8.23	8.42	7.97	6.97	5.71	4.90
Precipitation-effectiveness: 43.23						Temperature-efficiency						76.41
Moisture Index [MI=100*(P-PE)/PE]												19.78
+ C2.Subhumid humid (0<MI<20)												
Index of dryness [DI=100*d/PE]												17.73
+ Moderate deficit (16.7<DI<33.3)												
Index of humidity [HI=100*s/PE]												37.52
+ Strong surplus (20<HI)												
Potential Evapotranspiration PE												724.64
+ Second mesothermic (712<PE<855)												

