

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

FARO PUNTA DELGADA (ARGENTINA)

Altitude: 54 m.

Latitude: 42°46'S Longitude: 63°38'W

Temperature observation period.: 1941-1950 (10)

Rainfall observation period....: 1941-1950 (10)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	16.90	22.80	13.10	35.90	5.10	10.0	99.39
Feb.	17.40	23.20	13.30	35.60	5.40	10.0	86.30
Mar.	15.80	21.10	12.00	34.90	4.30	35.0	75.78
Apr.	13.90	18.60	10.20	30.10	0.30	31.0	55.50
May.	10.60	14.60	7.00	24.50	-0.10	34.0	36.09
Jun.	8.20	12.20	4.30	20.90	-3.40	23.0	23.37
Jul.	6.80	10.20	3.60	17.90	-3.50	33.0	19.97
Aug.	7.10	11.60	3.20	21.90	-2.90	10.0	23.68
Sep.	9.20	13.70	5.50	26.90	-4.90	23.0	35.63
Oct.	11.80	17.20	7.40	30.40	-2.40	11.0	57.00
Nov.	13.50	19.40	9.80	34.90	1.60	13.0	70.95
Dec.	15.60	21.80	12.00	37.20	2.70	14.0	92.00
Year	12.23	17.20	8.45	29.26	0.18	247	675.64

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	260
Compensated thermicity index.....(Itc):	260
Simple continentality index.....(Ic):	10.6
Diurnality index.....(Id):	9.9
Annual ombrothermic index.....(Io):	1.68
Monthly estival ombrothermic index.....(Ios1):	0.57
Bimonthly estival ombrothermic index.....(Ios2):	0.58
Threemonthly estival ombrothermic index.....(Ios3):	0.68
Fourmonthly estival ombrothermic index.....(Ios4):	0.74
Annual ombro-evaporation index.....(Ioe):	0.84
Annual positive temperature.....(Tp):	1468
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	499
Positive precipitation.....(Pp):	247

N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0
Months	1	5	1	5	0

Latitudinal Belt...: Low eutemperate

Continentalty.....: Hyperoceanic - Low Subhyperoceanic

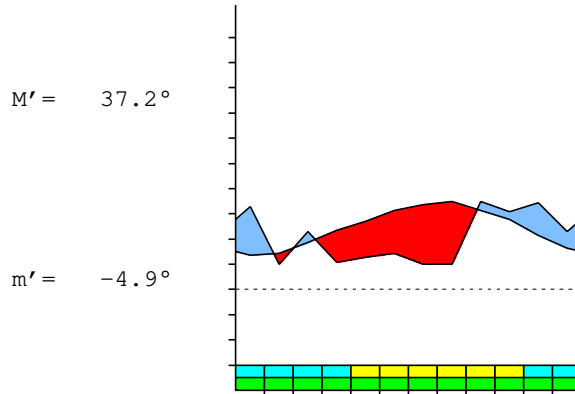
Bioclimate.....: MEDITERRANEAN XERIC-OCEANIC

Bioclimatic Belt...: UPPER MESOMEDITERRANEAN UPPER SEMIARID

FARO PUNTA DELGADA (ARGENTINA)

54 m

P= 247 42° 46' S 63° 38' W 10/10 y.
 T= 12.2° Ic= 10.6 Tp= 1468 Tn= 0
 m= 3.6° M= 10.2° Itc= 260 Io= 1.7



MEDITERRANEAN XERIC-OCEANIC
 UPPER MESOMEDITERRANEAN UPPER SEMIARID

WATER INDEX CARD FARO PUNTA DELGADA (ARGENTINA)
 Altitude: 54 m. Latitude: 42° 46' S

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	6.8	20	33	13	13	20	0	0	0	0.6
Aug.	7.1	24	10	-13	0	23	1	0	0	-0.5
Sep.	9.2	36	23	0	0	23	13	0	0	-0.3
Oct.	11.8	57	11	0	0	11	46	0	0	-0.8
Nov.	13.5	71	13	0	0	13	58	0	0	-0.8
Dec.	15.6	92	14	0	0	14	78	0	0	-0.8
Jan.	16.9	99	10	0	0	10	89	0	0	-0.8
Feb.	17.4	86	10	0	0	10	76	0	0	-0.8
Mar.	15.8	76	35	0	0	35	41	0	0	-0.5
Apr.	13.9	55	31	0	0	31	24	0	0	-0.4
May.	10.6	36	34	0	0	34	2	0	0	0.0
Jun.	8.2	23	23	0	0	23	0	0	0	0.0
Year	12.2	676	247	*	*	247	429	0	0	*

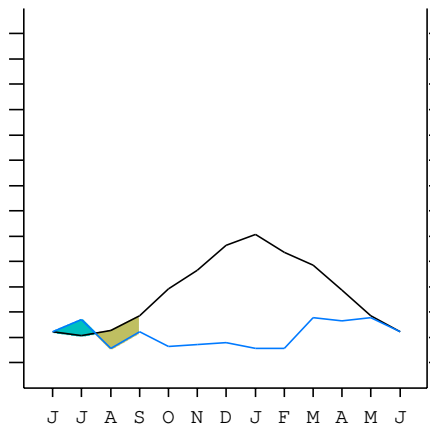
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

FARO PUNTA DELGADA (ARGENTINA)

42°46' S 63°38' W 54 m 10/10 y.

T= 12.2 Ic= 10.6 MEDITERRANEAN XERIC-OCEANIC
 m= 3.6 Tp= 1468 UPPER MESOMEDITERRANEAN
 M= 10.2 Tn= 0 UPPER SEMIARID
 M' = 37.2 Itc= 260
 m' = -4.9 Io= 1.7
 P= 247 mm ———
 PE= 676 mm ———

Imbibing	1 Jun.
Saturation	15 Jul.
Reserve Use	29 Aug.
Deficit	



FARO PUNTA DELGADA (ARGENTINA)

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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. Low eumperate
 + Thermic type: B. Temperate
 + Thermic subtype: 4. Temperate
 Bioclimatic types [B6.3a.4a]
 + Macrobioclimate: B. MEDITERRANEAN
 + Bioclimate: 6. XERIC-OCEANIC
 + Bioclimatic variant ..:
 + Thermic type.....: 3. MESOMEDITERRANEAN
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 4. SEMIARID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: MepDC.Mme.Sar

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 113
 Coldest semester of the year.....(Psw): 134
 Warmest four months period of the year.....(Pcm1): 69
 Following warmest four months period.....(Pcm2): 121
 Positive precipitation dryest 3 months.....(Ppd): 34
 Positive precipitation dryest 2 months.....(Ppd2): 20
 Positive precipitation dryest 1 month.....(Ppd1): 10
 Positive precipitation warmest 3 months.....(Pps): 55
 Positive precipitation warmest 2 months.....(Pps2): 20
 Positive precipitation warmest 1 month.....(Pps1): 10
 Positive precipitation coldest 3 months.....(Ppw): 66
 Positive precipitation coldest 2 months.....(Ppw2): 43
 Positive precipitation coldest 1 month.....(Ppw1): 33

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	66	47	34	100

Seasonal rainfall rhythms: F > W > P > S

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 17.4
 Average coldest month [T].....(Tmin): 6.8
 Maximum temp. warmest month [M].....(Tmmax): 23.2
 Minimum temp. coldest month [m].....(Tmmin): 3.2
 Absolute Max.temp. warmest month [M'].....(Tamax): 37.2
 Absolute Min.temp. coldest month [m'].....(Tamin): -4.9
 First warmest contrasted month [M].....(Tcmax): 23.2 (2)
 First coldest contrasted month [m].....(Tcmin): 13.3 (2)
 Estival temperature.....(Ts): 499
 Positive temperature dryest 3 months.....(Tpd): 499
 Positive temperature dryest 2 months.....(Tpd2): 343
 Positive temperature dryest 1 month.....(Tpd1): 169
 Positive temperature warmest 3 months.....(Tps): 501
 Positive temperature warmest 2 months.....(Tps2): 343
 Positive temperature warmest 1 month.....(Tps1): 174
 Positive temperature coldest 3 months.....(Tpw): 221
 Positive temperature coldest 2 months.....(Tpw2): 139
 Positive temperature coldest 1 month.....(Tpw1): 68

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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 2.74
 Mediterranean index of January.....(Im1): 9.94
 Mediterranean index of January & February.....(Im2): 9.28
 Mediterranean index of December to February...(Im3): 8.17

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	140	100	100	350	310	340	230	330	100	230	110	130
Tp	156	169	174	158	139	106	82	68	71	92	118	135
Io (Iom)	0.90	0.59	0.57	2.22	2.23	3.21	2.80	4.85	1.41	2.50	0.93	0.96
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	340 / 499			1000 / 403			660 / 221			470 / 345		
Io (Iot)	0.681			2.481			2.986			1.362		
Semesters	December-May						June-November					
Pp(x10)/Tp	1340 / 902						1130 / 566					
Io (Iosm)	1.486						1.996					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 2470/1468=1.68 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	140	100	100	350	310	340	230	330	100	230	110	130
Tp [T*10]	156	169	174	158	139	106	82	68	71	92	118	135
Iom [Pp/Tp]	90	59	57	222	223	321	280	485	141	250	93	96
Avm [200-Iom]	110	141	143	***	***	***	***	***	59	***	107	104
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	340 / 499			1000 / 403			660 / 221			470 / 345		
Iot [Pp/Tp]	68			248			299			136		
Avs E[Avm<200]	394			***			***			***		
Weak lower arid [3]						Weak upper arid [3]						
Weak lower 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]		6.14
CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]		8.63
+ 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]		20.19
+ Steppic (40>R>0)		
Aridity Index of Martonne (1926) [Ia=P/(T+10)]		11.11
+ Arid -steppic- (15>Ia>5)		
I of Emberger (1930) [Q=100*P/(Tmax ² -Tmin ²)]		46.78
+ Semiarid (50>Q>30)		
I of Dantin & Revenga (1940) [DR=100*T/P]		4.95
+ Arid (6>DR>3)		
Aridity Index of UNEP [I=P/PE]		0.37
+ Semiarid (0.5>Im>0.2)		
Potential Erosion I of Fournier (1960) [K=Pi ² /P]		4.96
+ 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	0.04	0.03	0.15	0.13	0.16	0.12	0.18	0.05	0.11	0.05	0.05	0.05
T-E ratio	7.60	7.83	7.11	6.25	4.77	3.69	3.06	3.19	4.14	5.31	6.07	7.02
Precipitation-effectiveness: 11.21						Temperature-efficiency						66.06
Moisture Index [MI=100*(P-PE)/PE]												-63.44
+ D.Semiarid (-66.7<MI<-33.3)												
Index of dryness [DI=100*d/PE]												63.44
+ Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]												0.00
+ No surplus (0<HI<10)												
Potential Evapotranspiration PE												675.64
+ First mesothermic (570<PE<712)												

