

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 14/02/2020)

WICK (UNITED KINGDOM)

Altitude: 39 m.

Latitude: 58°27'N Longitude: 3°5'W

Temperature observation period.: 1964-1994 (31)

Rainfall observation period....: 1959-1994 (36)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	3.62	5.56	1.67	13.33	-13.33	74.4	14.01
Feb.	3.89	6.11	1.67	14.44	-12.78	50.8	17.60
Mar.	4.72	7.22	2.22	16.67	-10.00	46.0	29.25
Apr.	6.11	8.89	3.33	19.44	-7.22	51.6	43.37
May.	8.06	10.56	5.56	20.56	-3.89	46.0	66.73
Jun.	10.56	13.33	7.78	26.67	-1.11	51.8	88.57
Jul.	12.50	15.00	10.00	26.67	1.11	65.3	103.04
Aug.	12.50	15.00	10.00	25.56	-0.56	66.8	90.68
Sep.	11.11	13.89	8.33	23.89	-1.67	73.7	66.13
Oct.	8.61	11.11	6.11	21.11	-6.11	79.3	43.76
Nov.	6.11	8.33	3.89	16.67	-11.11	80.3	23.85
Dec.	4.72	6.67	2.78	14.44	-12.22	75.4	16.92
Year	7.71	10.14	5.28	19.95	-6.57	761	603.91

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	149
Compensated thermicity index.....(Itc):	149
Simple continentality index.....(Ic):	8.9
Diurnality index.....(Id):	5.6
Annual ombrothermic index.....(Io):	8.23
Monthly estival ombrothermic index.....(Ios1):	4.91
Bimonthly estival ombrothermic index.....(Ios2):	5.28
Threemonthly estival ombrothermic index.....(Ios3):	5.17
Fourmonthly estival ombrothermic index.....(Ios4):	5.27
Annual ombro-evaporation index.....(Ioe):	1.26
Annual positive temperature.....(Tp):	925
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	356
Positive precipitation.....(Pp):	761

N. of Months	P>4T	P:2T-4T	PT-2T	P<T	T<0
	12	0	0	0	0

Latitudinal Belt...: Low Subtemperate

Continentality.....: Hyperoceanic - High Subhyperoceanic

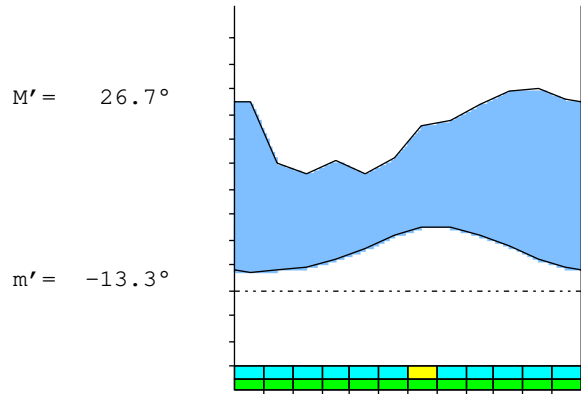
Bioclimate.....: TEMPERATE HYPEROCEANIC

Bioclimatic Belt...: LOW SUPRATEMPERATE LOW HUMID

WICK (UNITED KINGDOM)

39 m

P= 761 58° 27'N 3° 5'W 31/36 y.
 T= 7.7 ° Ic= 8.9 Tp= 925 Tn= 0
 m= 1.7 ° M= 5.6 ° Itc= 149 Io= 8.2



TEMPERATE HYPEROCEANIC
 LOW SUPRATEMPERATE LOW HUMID

WATER INDEX CARD WICK (UNITED KINGDOM)
 Altitude: 39 m. Latitude: 58° 27'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	3.6	14	74	0	100	14	0	60	45	4.3
Feb.	3.9	18	51	0	100	18	0	33	39	1.8
Mar.	4.7	29	46	0	100	29	0	17	28	0.5
Apr.	6.1	43	52	0	100	43	0	8	18	0.1
May.	8.1	67	46	-21	79	67	0	0	9	-0.3
Jun.	10.6	89	52	-37	42	89	0	0	5	-0.4
Jul.	12.5	103	65	-38	5	103	0	0	2	-0.3
Aug.	12.5	91	67	-5	0	72	19	0	1	-0.2
Sep.	11.1	66	74	8	8	66	0	0	1	0.1
Oct.	8.6	44	79	36	43	44	0	0	0	0.8
Nov.	6.1	24	80	56	100	24	0	0	0	2.3
Dec.	4.7	17	75	0	100	17	0	58	29	3.4
Year	7.7	604	761	*	*	585	19	177	177	*

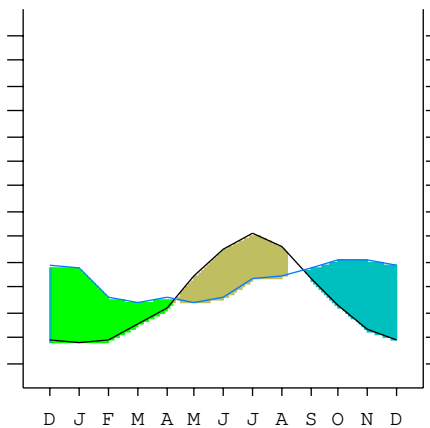
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

WICK (UNITED KINGDOM)

58°27'N 3°5'W 39 m 31/36 y.

T= 7.7 Ic= 8.9 TEMPERATE HYPEROCEANIC
 m= 1.7 Tp= 925 LOW SUPRATEMPERATE
 M= 5.6 Tn= 0 LOW HUMID
 M' = 26.7 Itc= 149
 m' = -13.3 Io= 8.2
 P= 761 mm ———
 PE= 604 mm ———

Imbibing	23 Aug.
Saturation	1 Dec.
Reserve Use	9 Apr.
Deficit	6 Aug.



WICK (UNITED KINGDOM)

Latitude: 58°27'N Longitude: 3°5'W Altitude: 39 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

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

Thermic types [B2.B5]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 2. Low Subtemperate
 + Thermic type: B. Temperate
 + Thermic subtype: 5. Subtemperate

Bioclimatic types [C4.4b.7b]
 + Macrobioclimate: C. TEMPERATE
 + Bioclimate: 4. HYPEROCEANIC
 + Bioclimatic variant .:
 + Thermic type.....: 4. SUPRATEMPERATE
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 7. HUMID
 + Ombrothermic subtype : b. LOW

Bioclimatic ClassificationTeho.Ste.Hum.Sho

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 383
 Coldest semester of the year.....(Psw): 379
 Warmest four months period of the year.....(Pcm1): 258
 Following warmest four months period.....(Pcm2): 309
 Positive precipitation dryest 3 months.....(Ppd): 144
 Positive precipitation dryest 2 months.....(Ppd2): 97
 Positive precipitation dryest 1 month.....(Ppd1): 46
 Positive precipitation warmest 3 months.....(Pps): 206
 Positive precipitation warmest 2 months.....(Pps2): 132
 Positive precipitation warmest 1 month.....(Pps1): 65
 Positive precipitation coldest 3 months.....(Ppw): 171
 Positive precipitation coldest 2 months.....(Ppw2): 125
 Positive precipitation coldest 1 month.....(Ppw1): 74

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	200	143	183	233

Seasonal rainfall rhythms: F > W > S > P

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 12.5
 Average coldest month [T].....(Tmin): 3.6
 Maximum temp. warmest month [M].....(Tmmax): 15.0
 Minimum temp. coldest month [m].....(Tmmin): 1.7
 Absolute Max.temp. warmest month [M'].....(Tamax): 26.7
 Absolute Min.temp. coldest month [m'].....(Tamin): -13.3
 First warmest contrasted month [M].....(Tcmax): 8.9 (4)
 First coldest contrasted month [m].....(Tcmin): 3.3 (4)
 Estival temperature.....(Ts): 356
 Positive temperature dryest 3 months.....(Tpd): 189
 Positive temperature dryest 2 months.....(Tpd2): 86
 Positive temperature dryest 1 month.....(Tpd1): 47
 Positive temperature warmest 3 months.....(Tps): 361
 Positive temperature warmest 2 months.....(Tps2): 250
 Positive temperature warmest 1 month.....(Tps1): 125
 Positive temperature coldest 3 months.....(Tpw): 122
 Positive temperature coldest 2 months.....(Tpw2): 75
 Positive temperature coldest 1 month.....(Tpw1): 36

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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.79
 Mediterranean index of July.[PE/P].....(Im1): 1.58
 Mediterranean index of July & August.....(Im2): 1.47
 Mediterranean index of June, July & August....(Im3): 1.54

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	754	744	508	460	516	460	518	653	668	737	793	803
Tp	47	36	39	47	61	81	106	125	125	111	86	61
Io (Iom)	16.0	20.6	13.1	9.75	8.45	5.71	4.91	5.22	5.34	6.63	9.21	13.1
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	2006 / 122			1436 / 189			1839 / 356			2333 / 258		
Io (Iot)	16.40			7.602			5.172			9.032		
Semesters	December-May						June-November					
Pp(x10)/Tp	3442 / 311						4172 / 614					
Io (Iosm)	11.06						6.796					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 7614/925=8.23 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	754	744	508	460	516	460	518	653	668	737	793	803
Tp [T*10]	47	36	39	47	61	81	106	125	125	111	86	61
Iom [Pp/Tp]	\$\$	\$\$	\$\$	975	845	571	491	522	534	663	921	\$\$
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	2006 / 122			1436 / 189			1839 / 356			2333 / 258		
Iot [Pp/Tp]	1640			760			517			903		
Avs E [Avm<200]	***			***			***			***		

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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]: -2.69
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 2.23
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.43
 + Hyperoceanic (0<CI<0.6)
 Rainfall Index of Lang (1925) [R=P/T]: 98.77
 + Temperate warm (100>R>60)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 42.99
 + Humid (60>Ia>30)
 I of Emberger (1930) [Q=100*P/(Tmmax²-Tmmin²)]: 342.65
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 1.01
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 1.26
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 8.47
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: A. Warm and temperate warm
 + Region: 7. Mesoaxeric (Axeric temperate)
 + Thermic type: 5. Meso-microthermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.51	0.33	0.28	0.31	0.25	0.26	0.32	0.33	0.38	0.45	0.50	0.49
T-E ratio	1.63	1.75	2.12	2.75	3.63	4.75	5.63	5.63	5.00	3.87	2.75	2.12
Precipitation-effectiveness: 44.23						Temperature-efficiency: 41.63						
Moisture Index [MI=100*(P-PE)/PE]: 26.08 + B1.Humid low-humid (20<MI<40)												
Index of dryness [DI=100*d/PE]: 3.16 + No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]: 29.24 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 603.91 + First mesothermic (570<PE<712)												

