

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

STANLEY (FALKLAND IS. -UK-)

Altitude: 2 m.

Latitude: 51°42'S Longitude: 57°51'W

Temperature observation period.: 1945-1970 (26)

Rainfall observation period....: 1929-1970 (42)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	9.50	13.30	5.60	24.40	-1.10	71.0	87.32
Feb.	8.90	12.80	5.00	23.30	-1.10	58.0	68.18
Mar.	8.10	11.70	4.40	21.10	-2.80	64.0	61.28
Apr.	6.10	9.40	2.80	17.20	-6.10	66.0	39.59
May.	3.90	6.70	1.10	14.10	-6.70	66.0	24.40
Jun.	2.20	5.00	0.00	10.60	-11.10	53.0	13.97
Jul.	1.90	4.40	-0.60	10.00	-8.90	51.0	13.45
Aug.	2.20	5.00	-0.60	11.10	-11.10	51.0	17.73
Sep.	3.90	7.20	0.60	15.00	-10.60	38.0	31.79
Oct.	5.30	8.90	1.70	17.80	-5.60	41.0	48.56
Nov.	7.00	11.10	2.80	21.70	-3.30	51.0	65.38
Dec.	8.10	12.20	3.90	21.70	-1.70	71.0	79.66
Year	5.59	8.97	2.22	17.33	-5.84	681	551.31

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	94
Compensated thermicity index.....(Itc):	90
Simple continentality index.....(Ic):	7.6
Diurnality index.....(Id):	8.3
Annual ombrothermic index.....(Io):	10.15
Monthly estival ombrothermic index.....(Ios1):	7.47
Bimonthly estival ombrothermic index.....(Ios2):	7.01
Threemonthly estival ombrothermic index.....(Ios3):	7.28
Fourmonthly estival ombrothermic index.....(Ios4):	7.63
Annual ombro-evaporation index.....(Ioe):	1.27
Annual positive temperature.....(Tp):	671
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	265
Positive precipitation.....(Pp):	681

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

Latitudinal Belt...: Low subtemperate

Continentality.....: Hyperoceanic - Low Euhyperoceanic

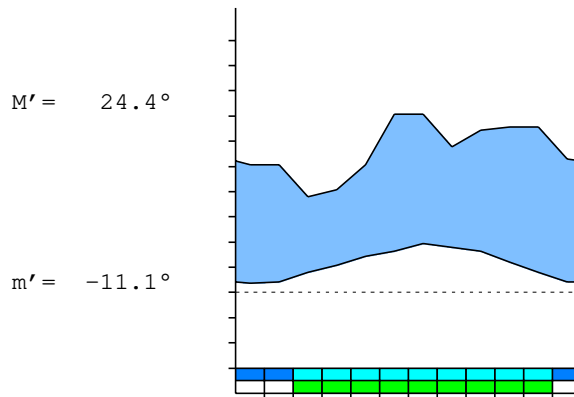
Bioclimate.....: BOREAL (ANTIBOREAL) HYPEROCEANIC

Macrobioclimate....: LOW MESOBOREAL UPPER HUMID

STANLEY (FALKLAND IS. -UK-)

2 m

P= 681 51° 42'S 57° 51'W 26/42 y.
 T= 5.6° Ic= 7.6 Tp= 671 Tn= 0
 m= -0.6° M= 4.4° Itc= 90 Io= 10.1



BOREAL (ANTIBOREAL) HYPEROCEANIC
 LOW MESOBOREAL UPPER HUMID

WATER INDEX CARD

STANLEY (FALKLAND IS. -UK-)

Altitude: 2 m.

Latitude: 51° 42'S

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	1.9	13	51	0	100	13	0	38	30	2.7
Aug.	2.2	18	51	0	100	18	0	33	32	1.8
Sep.	3.9	32	38	0	100	32	0	6	19	0.1
Oct.	5.3	49	41	-8	92	49	0	0	9	-0.1
Nov.	7.0	65	51	-14	78	65	0	0	5	-0.2
Dec.	8.1	80	71	-9	69	80	0	0	2	-0.1
Jan.	9.5	87	71	-16	53	87	0	0	1	-0.1
Feb.	8.9	68	58	-10	43	68	0	0	1	-0.1
Mar.	8.1	61	64	3	46	61	0	0	0	0.0
Apr.	6.1	40	66	26	72	40	0	0	0	0.6
May.	3.9	24	66	28	100	24	0	14	7	1.7
Jun.	2.2	14	53	0	100	14	0	39	23	2.7
Year	5.6	551	681	*	*	551	0	130	130	*

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

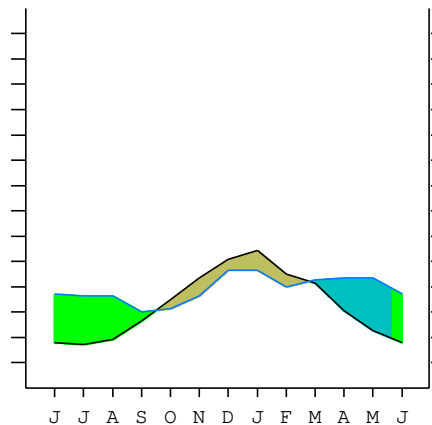
STANLEY (FALKLAND IS. -UK-)

51°42'S 57°51'W

2 m 26/42 y.

T= 5.6 Ic= 7.6 BOREAL (ANTIBOREAL) HYPEROCEANIC
 m= -0.6 Tp= 671 LOW MESOBOREAL
 M= 4.4 Tn= 0 UPPER HUMID
 M' = 24.4 Itc= 90
 m' = -11.1 Io= 10.1
 P= 681 mm ———
 PE= 551 mm ———

Imbibing	24 Feb.
Saturation	21 May.
Reserve Use	14 Sep.
Deficit	



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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A2b]
 + Type: A. Hyperoceanic
 + Subtype: 2. Euhyperoceanic
 + Variant: b. Low

Thermic types [B1.C6]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 1. Low subtemperate
 + Thermic type: C. Cold
 + Thermic subtype: 6. Cool

Bioclimatic types [D6.3b.7a]
 + Macrobioclimate: D. BOREAL (ANTIBOREAL)
 + Bioclimate: 6. HYPEROCEANIC
 + Bioclimatic variant .:
 + Thermic type.....: 3. MESOBOREAL
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 7. HUMID
 + Ombrothermic subtype : a. UPPER

Bioclimatic Classification: Boxe.Sbo.Hum

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 381
 Coldest semester of the year.....(Psw): 300
 Warmest four months period of the year.....(Pcm1): 264
 Following warmest four months period.....(Pcm2): 236
 Positive precipitation dryest 3 months.....(Ppd): 130
 Positive precipitation dryest 2 months.....(Ppd2): 79
 Positive precipitation dryest 1 month.....(Ppd1): 38
 Positive precipitation warmest 3 months.....(Pps): 193
 Positive precipitation warmest 2 months.....(Pps2): 129
 Positive precipitation warmest 1 month.....(Pps1): 71
 Positive precipitation coldest 3 months.....(Ppw): 155
 Positive precipitation coldest 2 months.....(Ppw2): 104
 Positive precipitation coldest 1 month.....(Ppw1): 51

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	155	130	200	196

Seasonal rainfall rhythms: S > F > W > P

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 9.5
 Average coldest month [T].....(Tmin): 1.9
 Maximum temp. warmest month [M].....(Tmmax): 13.3
 Minimum temp. coldest month [m].....(Tmmin): -0.6
 Absolute Max.temp. warmest month [M'].....(Tamax): 24.4
 Absolute Min.temp. coldest month [m'].....(Tamin): -11.1
 First warmest contrasted month [M].....(Tcmax): 11.1 (11)
 First coldest contrasted month [m].....(Tcmin): 2.8 (11)
 Estival temperature.....(Ts): 265
 Positive temperature dryest 3 months.....(Tpd): 114
 Positive temperature dryest 2 months.....(Tpd2): 92
 Positive temperature dryest 1 month.....(Tpd1): 39
 Positive temperature warmest 3 months.....(Tps): 265
 Positive temperature warmest 2 months.....(Tps2): 184
 Positive temperature warmest 1 month.....(Tps1): 95
 Positive temperature coldest 3 months.....(Tpw): 63
 Positive temperature coldest 2 months.....(Tpw2): 41
 Positive temperature coldest 1 month.....(Tpw1): 19

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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
Ultragelid...[M' <=0] (Pf)												
Hypergelid...[M <=0] (Pf)												
Gelid.....[T <=0] (Pf)												
Subgelid.....[m <=0] (Pf)						o	o	o				
Pregelid.....[m' <=0] (Pf)	o	o	o	o	o	o	o	o	o	o	o	o
Agelid.....[m' > 0] (Pf)												
HiperAgelid..[all>0] (Pf)												

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.81
 Mediterranean index of January.....(Im1): 1.23
 Mediterranean index of January & February.....(Im2): 1.21
 Mediterranean index of December to February...(Im3): 1.18

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	710	710	580	640	660	660	530	510	510	380	410	510
Tp	81	95	89	81	61	39	22	19	22	39	53	70
Io (Iom)	8.77	7.47	6.52	7.90	10.8	16.9	24.1	26.8	23.2	9.74	7.74	7.29
Seasons	Summer			Autumn			Winter			Spring		
Pp(x10)/Tp	2000 / 265			1960 / 181			1550 / 63			1300 / 162		
Io (Iot)	7.547			10.83			24.60			8.025		
Semesters	December-May						June-November					
Pp(x10)/Tp	3960 / 446						2850 / 225					
Io (Iosm)	8.879						12.67					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 6810/671=10.15 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	710	710	580	640	660	660	530	510	510	380	410	510
Tp [T*10]	81	95	89	81	61	39	22	19	22	39	53	70
Iom [Pp/Tp]	877	747	652	790	\$\$	\$\$	\$\$	\$\$	\$\$	974	774	729
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Summer			Autumn			Winter			Spring		
Pp / Tp	2000 / 265			1960 / 181			1550 / 63			1300 / 162		
Iot [Pp/Tp]	755			1083			2460			802		
Avs E[Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 7.60
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: -3.94
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 0.67
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.42
 + Hyperoceanic (0<CI<0.6)
 Rainfall Index of Lang (1925) [R=P/T]: 121.79
 + Temperate humid (160>R>100)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 43.68
 + Humid (60>Ia>30)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 385.77
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.82
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 1.24
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 7.40
 + 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: 6. Microthermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.39	0.32	0.36	0.40	0.44	0.37	0.36	0.35	0.24	0.25	0.29	0.41
T-E ratio	4.27	4.00	3.65	2.74	1.76	0.99	0.85	0.99	1.76	2.39	3.15	3.65
Precipitation-effectiveness: 41.77						Temperature-efficiency: 30.20						
Moisture Index [MI=100*(P-PE)/PE]: 23.52 + B1.Humid low-humid (20<MI<40)												
Index of dryness [DI=100*d/PE]: 0.00 + No deficit (0<DI<16.7)												
Index of humidity [HI=100*s/PE]: 23.51 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 551.31 + Second microthermic (427<PE<570)												

