

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 30/08/2017)

TEIGARHORN (ICELAND)

Altitude: 18 m.

Latitude: 64°41'N Longitude: 14°22'W

Temperature observation period.: 1964-1994 (31)

Rainfall observation period....: 1964-1994 (31)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	Epi
Jan.	0.55	2.78	-1.67	12.78	-15.00	152.4	3.28
Feb.	0.28	2.78	-2.22	13.89	-16.67	114.3	3.12
Mar.	1.11	3.89	-1.67	14.44	-16.67	91.4	13.52
Apr.	2.78	6.11	-0.56	17.78	-10.56	83.8	33.31
May.	6.39	10.00	2.78	23.33	-8.33	78.7	79.14
Jun.	9.45	13.33	5.56	30.56	-0.56	78.7	115.70
Jul.	10.83	14.44	7.22	26.67	1.11	91.4	122.87
Aug.	10.56	13.89	7.22	23.33	0.56	99.1	101.10
Sep.	8.06	11.11	5.00	21.11	-3.33	129.5	62.92
Oct.	4.45	7.22	1.67	19.44	-7.78	124.5	30.73
Nov.	1.94	4.44	-0.56	17.78	-11.67	121.9	10.28
Dec.	0.83	3.33	-1.67	12.78	-15.00	144.8	2.70
Year	4.77	7.78	1.76	19.49	-8.66	1311	578.68

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	53
Compensated thermicity index.....(Itc):	53
Simple continentality index.....(Ic):	10.6
Diurnality index.....(Id):	7.8
Annual ombrothermic index.....(Io):	22.90
Monthly estival ombrothermic index.....(Ios1):	8.44
Bimonthly estival ombrothermic index.....(Ios2):	8.91
Threemonthly estival ombrothermic index.....(Ios3):	8.73
Fourmonthly estival ombrothermic index.....(Ios4):	9.34
Annual ombro-evaporation index.....(Ioe):	0.85
Annual positive temperature.....(Tp):	572
Annual negative temperature.....(Tn):	0
Estival temperature.....(Ts):	308
Positive precipitation.....(Pp):	1311

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

Latitudinal Belt...: High subtemperate

Continentalty.....: Hyperoceanic - Low Subhyperoceanic

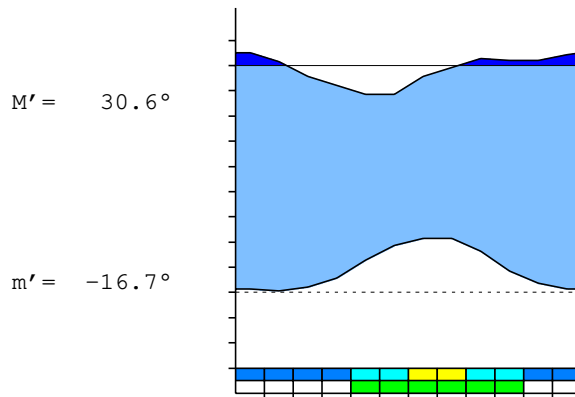
Bioclimate.....: BOREAL HYPEROCEANIC

Macrobioclimate....: LOW SUPRABOREAL UPPER HYPERHUMID

TEIGARHORN (ICELAND)

18 m

P= 1311 64° 41'N 14° 22'W 31/31 y.
 T= 4.8° Ic= 10.6 Tp= 572 Tn= 0
 m= -2.2° M= 2.8° Itc= 53 Io= 22.9



BOREAL HYPEROCEANIC
 LOW SUPRABOREAL UPPER HYPERHUMID

WATER INDEX CARD TEIGARHORN (ICELAND)
 Altitude: 18 m. Latitude: 64° 41'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	0.6	3	152	0	100	3	0	149	130	45.4
Feb.	0.3	3	114	0	100	3	0	111	120	35.5
Mar.	1.1	14	91	0	100	14	0	78	99	5.7
Apr.	2.8	33	84	0	100	33	0	50	75	1.5
May.	6.4	79	79	-0	100	79	0	0	37	0.0
Jun.	9.4	116	79	-37	63	116	0	0	19	-0.3
Jul.	10.8	123	91	-31	31	123	0	0	9	-0.2
Aug.	10.6	101	99	-2	29	101	0	0	5	0.0
Sep.	8.1	63	130	67	96	63	0	0	2	1.0
Oct.	4.4	31	125	4	100	31	0	89	46	3.0
Nov.	1.9	10	122	0	100	10	0	112	79	10.8
Dec.	0.8	3	145	0	100	3	0	142	110	52.5
Year	4.8	579	1311	*	*	579	0	732	732	*

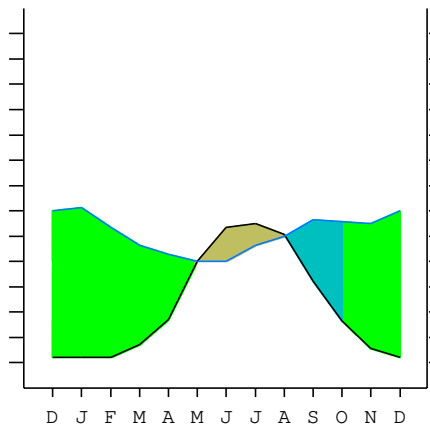
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

TEIGARHORN (ICELAND)

64°41'N 14°22'W 18 m 31/31 y.

T= 4.8 Ic= 10.6 BOREAL HYPEROCEANIC
 m= -2.2 Tp= 572 LOW SUPRABOREAL
 M= 2.8 Tn= 0 UPPER HYPERHUMID
 M' = 30.6 Itc= 53
 m' = -16.7 Io= 22.9
 P= 1311 mm ———
 PE= 579 mm ———

Imbibing	1 Aug.
Saturation	2 Oct.
Reserve Use	30 Apr.
Deficit	



TEIGARHORN (ICELAND)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A3b]
 + Type: A. Hyperoceanic
 + Subtype: 3. Subhyperoceanic
 + Variant: b. Low
 Thermic types [B2.C6]
 + Latitudinal zone: B. Temperate
 + Latitudinal belt: 2. High subtemperate
 + Thermic type: C. Cold
 + Thermic subtype: 6. Cool
 Bioclimatic types [D6.4b.8a]
 + Macrobioclimate: D. BOREAL
 + Bioclimate: 6. HYPEROCEANIC
 + Bioclimatic variant ..:
 + Thermic type.....: 4. SUPRABOREAL
 + Thermic subtype.....: b. LOW
 + Ombrothermic type ...: 8. HYPERHUMID
 + Ombrothermic subtype : a. UPPER
 Bioclimatic Classification: Boxe.Obo.Hhu

TEIGARHORN (ICELAND)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 602
 Coldest semester of the year.....(Psw): 709
 Warmest four months period of the year.....(Pcm1): 399
 Following warmest four months period.....(Pcm2): 544
 Positive precipitation dryest 3 months.....(Ppd): 241
 Positive precipitation dryest 2 months.....(Ppd2): 157
 Positive precipitation dryest 1 month.....(Ppd1): 79
 Positive precipitation warmest 3 months.....(Pps): 269
 Positive precipitation warmest 2 months.....(Pps2): 191
 Positive precipitation warmest 1 month.....(Pps1): 91
 Positive precipitation coldest 3 months.....(Ppw): 412
 Positive precipitation coldest 2 months.....(Ppw2): 267
 Positive precipitation coldest 1 month.....(Ppw1): 114

Seasons	Winter Tr1-W	Spring Tr2-P	Summer Tr3-S	Automn Tr4-F
Rainfall	411	253	269	375

Seasonal rainfall rhythms: W > F > S > P

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 10.8
 Average coldest month [T].....(Tmin): 0.3
 Maximum temp. warmest month [M].....(Tmmax): 14.4
 Minimum temp. coldest month [m].....(Tmmin): -2.2
 Absolute Max.temp. warmest month [M'].....(Tamax): 30.6
 Absolute Min.temp. coldest month [m'].....(Tamin): -16.7
 First warmest contrasted month [M].....(Tcmax): 13.3 (6)
 First coldest contrasted month [m].....(Tcmin): 5.6 (6)
 Estival temperature.....(Ts): 308
 Positive temperature dryest 3 months.....(Tpd): 186
 Positive temperature dryest 2 months.....(Tpd2): 158
 Positive temperature dryest 1 month.....(Tpd1): 64
 Positive temperature warmest 3 months.....(Tps): 308
 Positive temperature warmest 2 months.....(Tps2): 214
 Positive temperature warmest 1 month.....(Tps1): 108
 Positive temperature coldest 3 months.....(Tpw): 17
 Positive temperature coldest 2 months.....(Tpw2): 8
 Positive temperature coldest 1 month.....(Tpw1): 3

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

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OMBROTHERMIC PARAMETERS

Annual aridity index.[PE/P].....(Iar): 0.44
 Mediterranean index of July.[PE/P].....(Im1): 1.34
 Mediterranean index of July & August.....(Im2): 1.18
 Mediterranean index of June, July & August....(Im3): 1.26

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	1448	1524	1143	914	838	787	787	914	991	1295	1245	1219
Tp	8	6	3	11	28	64	95	108	106	81	45	19
Io (Iom)	174	277	408	82.3	30.1	12.3	8.33	8.44	9.38	16.1	28.0	62.8
Seasons	Winter			Spring			Summer			Autumn		
Pp(x10)/Tp	4115 / 17			2539 / 103			2692 / 308			3759 / 145		
Io (Iot)	247.9			24.70			8.729			26.01		
Semesters	December-May						June-November					
Pp(x10)/Tp	6654 / 119						6451 / 453					
Io (Iosm)	55.73						14.24					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 13105/572=22.90 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	1448	1524	1143	914	838	787	787	914	991	1295	1245	1219
Tp [T*10]	8	6	3	11	28	64	95	108	106	81	45	19
Iom [Pp/Tp]	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	833	844	938	\$\$	\$\$	\$\$
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Winter			Spring			Summer			Autumn		
Pp / Tp	4115 / 17			2539 / 103			2692 / 308			3759 / 145		
Iot [Pp/Tp]	\$\$			2470			873			2601		
Avs E[Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 10.55
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: -0.56
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 4.60
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.47
 + Hyperoceanic (0<CI<0.6)
 Rainfall Index of Lang (1925) [R=P/T]: 274.79
 + Humid (R>160)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 88.73
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 643.71
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.36
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 2.26
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 17.72
 + 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	1.29	0.95	0.71	0.60	0.49	0.44	0.49	0.54	0.79	0.87	0.94	1.20
T-E ratio	0.25	0.13	0.50	1.25	2.88	4.25	4.87	4.75	3.63	2.00	0.87	0.37
Precipitation-effectiveness: 93.17						Temperature-efficiency: 25.75						
Moisture Index [MI=100*(P-PE)/PE]: 126.47 + A.Extremely humid (MI>100) Index of dryness [DI=100*d/PE]: 0.00 + No deficit (0<DI<16.7) Index of humidity [HI=100*s/PE]: 126.46 + Strong surplus (20<HI) Potential Evapotranspiration PE: 578.68 + First mesothermic (570<PE<712)												

