

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

Prof.Dr. Salvador Rivas-Martinez

(Adapted to Synoptical Table 30/08/2017)

SIGUIRI (GUINEA)

Altitude: 362 m.

Latitude: 11°26'N Longitude: 9°10'W

Temperature observation period.: 1951-1970 (20)

Rainfall observation period....: 1922-1970 (49)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	25.15	28.95	21.15	0.00	0.00	0.6	106.39
Feb.	27.82	30.49	24.96	0.00	0.00	1.1	134.38
Mar.	29.80	31.93	27.38	0.00	0.00	9.3	166.77
Apr.	30.83	34.19	27.36	0.00	0.00	34.4	175.26
May.	29.52	32.00	26.80	0.00	0.00	99.7	174.04
Jun.	27.02	29.36	24.49	0.00	0.00	186.4	148.04
Jul.	25.55	26.80	24.20	0.00	0.00	257.2	124.60
Aug.	25.13	27.15	23.25	0.00	0.00	347.5	114.63
Sep.	25.64	27.46	23.89	0.00	0.00	272.7	118.22
Oct.	26.67	29.66	23.49	0.00	0.00	117.2	139.60
Nov.	26.33	28.63	24.08	0.00	0.00	18.1	124.74
Dec.	24.72	27.71	21.54	0.00	0.00	2.2	99.44
Year	27.02	29.53	24.38	0.00	0.00	1346	1626.1

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	763
Compensated thermicity index.....(Itc):	763
Simple continentality index.....(Ic):	6.1
Diurnality index.....(Id):	7.8
Annual ombrothermic index.....(Io):	4.15
Monthly dry ombrothermic index.....(Iod1):	0.02
Bimonthly dry ombrothermic index.....(Iod2):	0.03
Three monthly dry ombrothermic index.....(Iod3):	0.05
Four monthly dry ombrothermic index.....(Iod4):	0.21
Annual ombro-evaporation index.....(Ioe):	0.78
Annual positive temperature.....(Tp):	3242
Annual negative temperature.....(Tn):	0
Dry station temperature.....(Td):	777
Positive precipitation.....(Pp):	1346

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

Latitudinal Belt...: Eutropical

Continentalty.....: Hyperoceanic - Low Euhyperoceanic

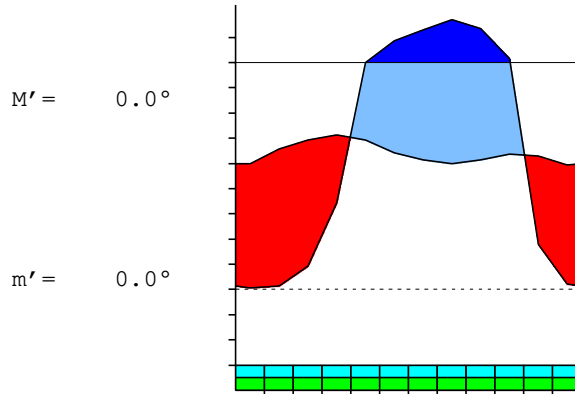
Bioclimate(Variant): TROPICAL PLUVISEASONAL (PLUVISEROTIN, XEROPHYTIC)

Bioclimatic Belt...: UPPER INFRATROPICAL LOW SUBHUMID

SIGUIRI (GUINEA)

362 m

P= 1346 11° 26'N 9° 10'W 20/49 y.
 T= 27.0° Ic= 6.1 Tp= 3242 Tn= 0
 m= 21.5° M= 27.7° Itc= 763 Io= 4.2



TROPICAL PLUVISEASONAL (PLUVISEROTIN)
 UPPER INFRATROPICAL LOW SUBHUMID

WATER INDEX CARD SIGUIRI (GUINEA)
 Altitude: 362 m.

Latitude: 11° 26'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	25.1	106	1	0	0	1	106	0	9	-0.9
Feb.	27.8	134	1	0	0	1	133	0	5	-0.9
Mar.	29.8	167	9	0	0	9	158	0	2	-0.9
Apr.	30.8	175	34	0	0	34	141	0	1	-0.8
May.	29.5	174	100	0	0	100	74	0	1	-0.4
Jun.	27.0	148	186	38	38	148	0	0	0	0.2
Jul.	25.5	125	257	62	100	125	0	71	36	1.0
Aug.	25.1	115	347	0	100	115	0	233	134	2.0
Sep.	25.6	118	273	0	100	118	0	155	144	1.3
Oct.	26.7	140	117	-22	78	140	0	0	72	-0.1
Nov.	26.3	125	18	-78	0	96	29	0	36	-0.8
Dec.	24.7	99	2	0	0	2	97	0	18	-0.9
Year	27.0	1626	1346	*	*	888	738	458	458	*

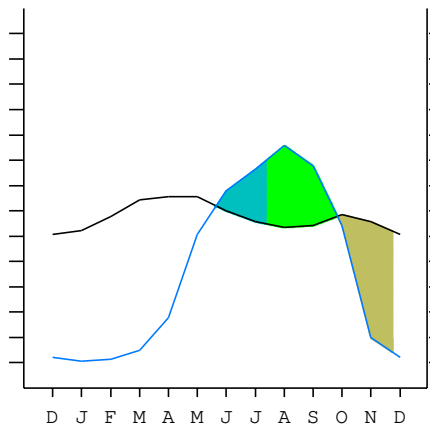
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

SIGUIRI (GUINEA)

11°26'N 9°10'W 362 m 20/49 y.

T= 27.0 Ic= 6.1 TROPICAL PLUVISEASONAL (PLUVISEROTIN)
 m= 21.5 Tp= 3242 UPPER INFRATROPICAL
 M= 27.7 Tn= 0 LOW SUBHUMID
 M' = 0.0 Itc= 763
 m' = 0.0 Io= 4.2
 P= 1346 mm ———
 PE= 1626 mm ———

Imbibing	20 May.
Saturation	14 Jul.
Reserve Use	27 Sep.
Deficit	22 Nov.



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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A2b]
 + Type: A. Hyperoceanic
 + Subtype: 2. Euhyperoceanic
 + Variant: b. Low
 Thermic types [A2.A1]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 2. Eutropical
 + Thermic type: A. Warm
 + Thermic subtype: 1. Torrid
 Bioclimatic types [A4e.1a.6b]
 + Macrobioclimate: A. TROPICAL
 + Bioclimate: 4. PLUVISEASONAL
 + Bioclimatic variant .: e. PLUVISEROTIN, XEROPHYTIC
 + Thermic type.....: 1. INFRATROPICAL
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : b. LOW
 Bioclimatic Classification: Trde (Pse).Itr.Shu

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 588
 Coldest semester of the year.....(Psw): 758
 Warmest four months period of the year.....(Pcm1): 145
 Following warmest four months period.....(Pcm2): 1064
 Positive precipitation dryest 3 months.....(Ppd): 4
 Positive precipitation dryest 2 months.....(Ppd2): 2
 Positive precipitation dryest 1 month.....(Ppd1): 1
 Positive precipitation warmest 3 months.....(Pps): 143
 Positive precipitation warmest 2 months.....(Pps2): 44
 Positive precipitation warmest 1 month.....(Pps1): 34
 Positive precipitation coldest 3 months.....(Ppw): 21
 Positive precipitation coldest 2 months.....(Ppw2): 3
 Positive precipitation coldest 1 month.....(Ppw1): 2

Seasons	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4
Rainfall	3	143	791	408

Tropical rainfall rhythms: 3 > 4 > 2 > 1

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 30.8
 Average coldest month [T].....(Tmin): 24.7
 Maximum temp. warmest month [M].....(Tmmax): 34.2
 Minimum temp. coldest month [m].....(Tmmin): 21.1
 Absolute Max.temp. warmest month [M'].....(Tamax): 0.0
 Absolute Min.temp. coldest month [m'].....(Tamin): 0.0
 First warmest contrasted month [M].....(Tcmax): 29.0 (1)
 First coldest contrasted month [m].....(Tcmin): 21.1 (1)
 Dry station temperature.....(Td): 777
 Positive temperature dryest 3 months.....(Tpd): 777
 Positive temperature dryest 2 months.....(Tpd2): 530
 Positive temperature dryest 1 month.....(Tpd1): 252
 Positive temperature warmest 3 months.....(Tps): 902
 Positive temperature warmest 2 months.....(Tps2): 606
 Positive temperature warmest 1 month.....(Tps1): 308
 Positive temperature coldest 3 months.....(Tpw): 762
 Positive temperature coldest 2 months.....(Tpw2): 499
 Positive temperature coldest 1 month.....(Tpw1): 247

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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)												
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): 1.21
 Mediterranean index of July.[PE/P].....(Im1): No
 Mediterranean index of July & August.....(Im2): No
 Mediterranean index of June, July & August....(Im3): No

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp(x10)	22	6	11	93	344	997	1864	2572	3475	2727	1172	181
Tp	247	252	278	298	308	295	270	256	251	256	267	263
Io (Iom)	0.09	0.02	0.04	0.31	1.12	3.38	6.90	10.1	13.8	10.6	4.39	0.69
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	39 / 777			1434 / 902			7911 / 777			4080 / 786		
Io (Iot)	0.050			1.591			10.18			5.189		
Semesters	December-May						June-November					
Pp(x10)/Tp	1473 / 1678						11991 / 1563					
Io (Iosm)	0.878						7.670					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 13464/3242=4.15 **There is No Yearly Aridity**

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	22	6	11	93	344	997	1864	2572	3475	2727	1172	181
Tp [T*10]	247	252	278	298	308	295	270	256	251	256	267	263
Iom [Pp/Tp]	9	2	4	31	112	338	690	\$\$	\$\$	\$\$	439	69
Avm [200-Iom]	191	198	196	169	88	***	***	***	***	***	***	131
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp / Tp	39 / 777			1434 / 902			7911 / 777			4080 / 786		
Iot [Pp/Tp]	5			159			1018			519		
Avs E[Avm<200]	585			***			***			***		
Lower ultrahyperarid [4]							Upper hyperarid [1]					
Weak lower arid [1]							Strong lower semiarid [1]					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 6.11
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 32.00
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 14.42
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.27
 + Subcontinental (1.1<CI<1.7)
 Rainfall Index of Lang (1925) [R=P/T]: 49.84
 + Semiarid (60>R>40)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 36.37
 + Humid (60>Ia>30)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 186.58
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 2.01
 + Semiarid (3>DR>2)
 Aridity Index of UNEP [I=P/PE]: 0.83
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 89.66
 + Low (60<K<90)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: A. Warm and temperate warm
 + Region: 3. Termoxeroteric (Mediterranean warm)
 + Thermic type: 1. Megathermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.00	0.00	0.02	0.10	0.33	0.70	1.04	1.47	1.11	0.42	0.05	0.01
T-E ratio	11.32	12.52	13.41	13.87	13.28	12.16	11.50	11.31	11.54	12.00	11.85	11.12
Precipitation-effectiveness:	52.64					Temperature-efficiency: 145.88						
Moisture Index [MI=100*(P-PE)/PE]: -17.20 + C1.Subhumid dry (-33.3<MI<0)												
Index of dryness [DI=100*d/PE]: 45.38 + Strong deficit (33.3<DI)												
Index of humidity [HI=100*s/PE]: 28.18 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 1626.12 + Megathermic (PE>1440)												

