

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

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(Adapted to Synoptical Table 14/02/2020)

UAUPES (BRAZIL)

Altitude: 85 m.

Latitude: 0°8'S Longitude: 67°5'W

Temperature observation period.: 1945-1960 (16)

Rainfall observation period....: 1945-1960 (16)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	25.50	31.10	22.20	36.10	20.00	284.0	123.35
Feb.	25.80	31.70	22.20	36.10	19.80	261.0	115.95
Mar.	25.60	31.10	22.20	36.80	19.10	284.0	124.98
Apr.	25.40	31.10	22.20	36.40	19.60	263.0	118.22
May.	25.10	30.60	22.20	36.90	17.70	329.0	116.98
Jun.	24.70	30.00	21.70	36.80	17.60	244.0	107.64
Jul.	24.30	29.40	21.10	35.80	16.00	234.0	104.93
Aug.	25.00	30.60	21.70	35.80	18.50	186.0	115.42
Sep.	25.50	31.70	21.70	38.00	18.80	160.0	119.79
Oct.	25.80	31.70	21.70	39.00	18.70	164.0	128.29
Nov.	26.10	32.20	22.20	37.50	19.40	190.0	129.52
Dec.	25.70	31.10	22.20	36.90	19.30	270.0	126.63
Year	25.38	31.03	21.94	36.84	18.71	2869	1431.7

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	759
Compensated thermicity index.....(Itc):	759
Simple continentality index.....(Ic):	1.8
Diurnality index.....(Id):	10.0
Annual ombrothermic index.....(Io):	9.42
Monthly dry ombrothermic index.....(Iod1):	6.27
Bimonthly dry ombrothermic index.....(Iod2):	6.32
Threemonthly dry ombrothermic index.....(Iod3):	6.68
Fourmonthly dry ombrothermic index.....(Iod4):	7.40
Annual ombro-evaporation index.....(Ioe):	2.00
Annual positive temperature.....(Tp):	3045
Annual negative temperature.....(Tn):	0
Dry station temperature.....(Td):	763
Positive precipitation.....(Pp):	2869

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

Latitudinal Belt...: Equatorial

Continentalty.....: Hyperoceanic - High Ultrahyperoceanic

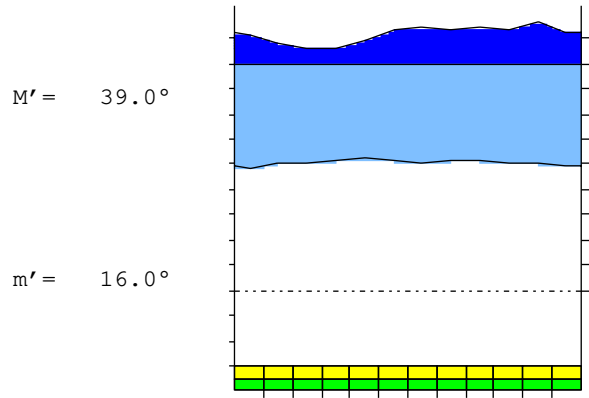
Bioclimate(Variant): TROPICAL PLUVIAL (HYGROPHYTIC)

Bioclimatic Belt...: UPPER INFRATROPICAL UPPER HUMID

UAUPES (BRAZIL)

85 m

P= 2869 0° 8'S 67° 5'W 16/16 y.
 T= 25.4 ° Ic= 1.8 Tp= 3045 Tn= 0
 m= 21.1 ° M= 29.4 ° Itc= 759 Io= 9.4



TROPICAL PLUVIAL (HYGROPHYTIC)
 UPPER INFRATROPICAL UPPER HUMID

WATER INDEX CARD UAUPES (BRAZIL)
 Altitude: 85 m. Latitude: 0° 8'S

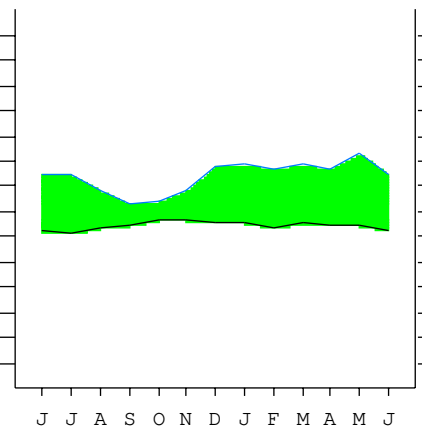
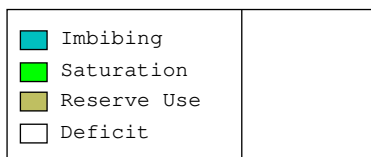
(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jul.	24.3	105	234	0	100	105	0	129	143	1.2
Aug.	25.0	115	186	0	100	115	0	71	107	0.6
Sep.	25.5	120	160	0	100	120	0	40	74	0.3
Oct.	25.8	128	164	0	100	128	0	36	55	0.2
Nov.	26.1	130	190	0	100	130	0	60	58	0.4
Dec.	25.7	127	270	0	100	127	0	143	100	1.1
Jan.	25.5	123	284	0	100	123	0	161	131	1.3
Feb.	25.8	116	261	0	100	116	0	145	138	1.2
Mar.	25.6	125	284	0	100	125	0	159	148	1.2
Apr.	25.4	118	263	0	100	118	0	145	147	1.2
May.	25.1	117	329	0	100	117	0	212	179	1.8
Jun.	24.7	108	244	0	100	108	0	136	158	1.2
Year	25.4	1432	2869	*	*	1432	0	1437	1437	*

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

UAUPES (BRAZIL)

0°8'S 67°5'W 85 m 16/16 y.

T= 25.4 Ic= 1.8 TROPICAL PLUVIAL (HYGROPHYTIC)
 m= 21.1 Tp= 3045 UPPER INFRATROPICAL
 M= 29.4 Tn= 0 UPPER HUMID
 M' = 39.0 Itc= 759
 m' = 16.0 Io= 9.4
 P= 2869 mm ———
 PE= 1432 mm ———



All over the year,
 there is no hydric deficit

UAUPES (BRAZIL)

Latitude: 0°8'S Longitude: 67°5'W Altitude: 85 m

SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continentality Index [A1a]
 + Type: A. Hyperoceanic
 + Subtype: 1. Ultrahyperoceanic
 + Variant: a. High

Thermic types [A1.A1]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 1. Equatorial
 + Thermic type: A. Warm
 + Thermic subtype: 1. Torrid

Bioclimatic types [A5.1a.7a]
 + Macrobioclimate: A. TROPICAL
 + Bioclimate: 5. PLUVIAL
 + Bioclimatic variant .: HYGROPHYTIC
 + Thermic type.....: 1. INFRATROPICAL
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 7. HUMID
 + Ombrothermic subtype : a. UPPER

Bioclimatic ClassificationTrpl(Hig).Itr.Hum.Uho

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 1453
 Coldest semester of the year.....(Psw): 1416
 Warmest four months period of the year.....(Pcm1): 784
 Following warmest four months period.....(Pcm2): 1092
 Positive precipitation dryest 3 months.....(Ppd): 510
 Positive precipitation dryest 2 months.....(Ppd2): 324
 Positive precipitation dryest 1 month.....(Ppd1): 160
 Positive precipitation warmest 3 months.....(Pps): 624
 Positive precipitation warmest 2 months.....(Pps2): 354
 Positive precipitation warmest 1 month.....(Pps1): 190
 Positive precipitation coldest 3 months.....(Ppw): 664
 Positive precipitation coldest 2 months.....(Ppw2): 478
 Positive precipitation coldest 1 month.....(Ppw1): 234

Seasons	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2
Rainfall	664	514	815	876

Tropical rainfall rhythms: 2 > 1 > 3 > 4

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 26.1
 Average coldest month [T].....(Tmin): 24.3
 Maximum temp. warmest month [M].....(Tmmax): 32.2
 Minimum temp. coldest month [m].....(Tmmin): 21.1
 Absolute Max.temp. warmest month [M'].....(Tamax): 39.0
 Absolute Min.temp. coldest month [m'].....(Tamin): 16.0
 First warmest contrasted month [M].....(Tcmax): 31.7 (9)
 First coldest contrasted month [m].....(Tcmin): 21.7 (9)
 Dry station temperature.....(Td): 763
 Positive temperature dryest 3 months.....(Tpd): 763
 Positive temperature dryest 2 months.....(Tpd2): 513
 Positive temperature dryest 1 month.....(Tpd1): 255
 Positive temperature warmest 3 months.....(Tps): 776
 Positive temperature warmest 2 months.....(Tps2): 519
 Positive temperature warmest 1 month.....(Tps1): 261
 Positive temperature coldest 3 months.....(Tpw): 740
 Positive temperature coldest 2 months.....(Tpw2): 490
 Positive temperature coldest 1 month.....(Tpw1): 243

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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)	o	o	o	o	o	o	o	o	o	o	o	o
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): 0.50
 Mediterranean index of January.....(Im1): No
 Mediterranean index of January & February....(Im2): No
 Mediterranean index of December to February...(Im3): No

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp (x10)	2700	2840	2610	2840	2630	3290	2440	2340	1860	1600	1640	1900
Tp	257	255	258	256	254	251	247	243	250	255	258	261
Io (Iom)	10.5	11.1	10.1	11.1	10.4	13.1	9.88	9.63	7.44	6.27	6.36	7.28
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	8150 / 770			8760 / 761			6640 / 740			5140 / 774		
Io (Iot)	10.58			11.51			8.973			6.641		
Semesters	December-May						June-November					
Pp(x10)/Tp	16910 / 1531						11780 / 1514					
Io (Iosm)	11.05						7.781					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 28690/3045=9.42 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	2700	2840	2610	2840	2630	3290	2440	2340	1860	1600	1640	1900
Tp [T*10]	257	255	258	256	254	251	247	243	250	255	258	261
Iom [Pp/Tp]	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	988	963	744	627	636	728
Avm [200-Iom]	***	***	***	***	***	***	***	***	***	***	***	***
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp / Tp	8150 / 770			8760 / 761			6640 / 740			5140 / 774		
Iot [Pp/Tp]	1058			1151			897			664		
Avs E [Avm<200]	***			***			***			***		

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 1.80
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 0.00
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 3.39
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.72
 + Continental (1.7<CI<2.3)
 Rainfall Index of Lang (1925) [R=P/T]: 113.06
 + Temperate humid (160>R>100)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 81.10
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 484.93
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.88
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 2.00
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 37.73
 + Very low (K<60)

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BIOCLIMATIC INDICES II

Bioclimatic classification of Gaussen & Bagnouls (1957)
 + Climate: A. Warm and temperate warm
 + Region: 6. Termoaxeric (Axeric warm)
 + Thermic type: 1. Megathermic

Thornthwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	1.16	1.05	1.16	1.07	1.38	1.00	0.96	0.74	0.61	0.63	0.73	1.09
T-E ratio	11.48	11.61	11.52	11.43	11.30	11.12	10.93	11.25	11.48	11.61	11.75	11.57
Precipitation-effectiveness: 116.01						Temperature-efficiency: 137.03						
Moisture Index [MI=100*(P-PE)/PE]: 100.39 + 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]: 100.38 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 1431.70 + Forth mesothermic (997<PE<1440)												

