

Phytosociological Research Center

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Worldwide Bioclimatic Classification System

S.Rivas-Martinez(+) & S.Rivas-Saenz

(Adapted to Synoptical Table 14/02/2020)

TAVOY (MYANMAR -BURMA-)

Altitude: 17 m.

Latitude: 14°6'N Longitude: 98°13'E

Temperature observation period.: 1949-1994 (46)

Rainfall observation period....: 1962-1994 (33)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	25.28	32.22	18.33	36.67	10.00	5.1	109.08
Feb.	26.67	33.33	20.00	37.22	10.56	10.2	125.91
Mar.	28.06	33.89	22.22	37.22	13.89	40.6	152.43
Apr.	29.17	34.44	23.89	38.33	17.78	66.0	163.15
May.	27.78	31.67	23.89	38.89	20.00	576.6	160.32
Jun.	26.11	28.89	23.33	36.11	20.56	1122.7	135.76
Jul.	25.83	28.33	23.33	37.78	20.00	1249.7	133.98
Aug.	25.83	28.33	23.33	33.89	20.00	1201.5	130.36
Sep.	26.11	28.89	23.33	37.22	20.56	840.8	128.22
Oct.	26.95	31.11	22.78	37.22	16.67	269.3	140.49
Nov.	26.67	31.67	21.67	37.78	11.11	58.4	131.39
Dec.	25.00	31.11	18.89	36.11	8.89	10.2	103.53
Year	26.62	31.16	22.08	37.04	15.84	5451	1614.6

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	766
Compensated thermicity index.....(Itc):	766
Simple continentality index.....(Ic):	4.2
Diurnality index.....(Id):	13.9
Annual ombrothermic index.....(Io):	17.06
Monthly dry ombrothermic index.....(Iod1):	0.20
Bimonthly dry ombrothermic index.....(Iod2):	0.30
Threemonthly dry ombrothermic index.....(Iod3):	0.33
Fourmonthly dry ombrothermic index.....(Iod4):	0.81
Annual ombro-evaporation index.....(Ioe):	3.38
Annual positive temperature.....(Tp):	3195
Annual negative temperature.....(Tn):	0
Dry station temperature.....(Td):	770
Positive precipitation.....(Pp):	5451

N. of Months	P>4T	P:2T-4T	PT-2T	P<T	T<0
	6	2	1	3	0

Latitudinal Belt...: Eutropical

Continentality.....: Hyperoceanic - High Euhyperoceanic

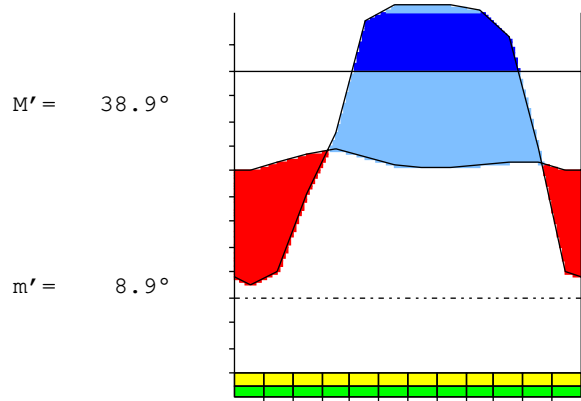
Bioclimate(Variant): TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)

Bioclimatic Belt...: UPPER INFRATROPICAL LOW HYPERHUMID

TAVOY (MYANMAR -BURMA-)

17 m

P= 5451 14° 6'N 98° 13'E 46/33 y.
 T= 26.6 ° Ic= 4.2 Tp= 3195 Tn= 0
 m= 18.9 ° M= 31.1 ° Itc= 766 Io= 17.1



TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
 UPPER INFRATROPICAL LOW HYPERHUMID

WATER INDEX CARD

TAVOY (MYANMAR -BURMA-)

Altitude: 17 m.

Latitude: 14° 6'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	25.3	109	5	0	0	5	104	0	60	-0.9
Feb.	26.7	126	10	0	0	10	116	0	30	-0.9
Mar.	28.1	152	41	0	0	41	112	0	15	-0.7
Apr.	29.2	163	66	0	0	66	97	0	8	-0.5
May.	27.8	160	577	100	100	160	0	316	162	2.5
Jun.	26.1	136	1123	0	100	136	0	987	574	7.2
Jul.	25.8	134	1250	0	100	134	0	1116	845	8.3
Aug.	25.8	130	1202	0	100	130	0	1071	958	8.2
Sep.	26.1	128	841	0	100	128	0	713	835	5.5
Oct.	27.0	140	269	0	100	140	0	129	482	0.9
Nov.	26.7	131	58	-73	27	131	0	0	241	-0.5
Dec.	25.0	104	10	-27	0	37	66	0	121	-0.9
Year	26.6	1615	5451	*	*	1120	495	3277	3277	*

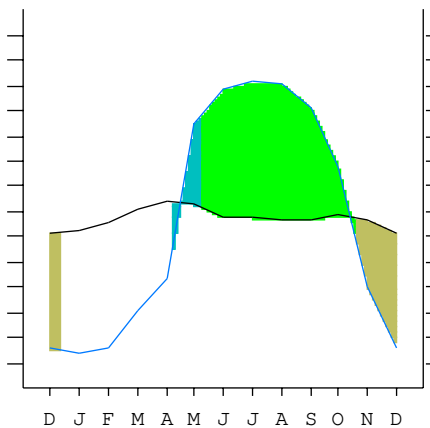
R = Reserve VR = Variation of the reserve RE = Real evapotranspiration
 DR = Drainage HC = Humidity coefficient DF = Deficit SP = Superavit

TAVOY (MYANMAR -BURMA-)

14°6'N 98°13'E 17 m 46/33 y.

T= 26.6 Ic= 4.2 TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
 m= 18.9 Tp= 3195 UPPER INFRATROPICAL
 M= 31.1 Tn= 0 LOW HYPERHUMID
 M' = 38.9 Itc= 766
 m' = 8.9 Io= 17.1
 P= 5451 mm ———
 PE= 1615 mm ———

Imbibing	6 Apr.
Saturation	8 May.
Reserve Use	20 Oct.
Deficit	9 Dec.



TAVOY (MYANMAR -BURMA-)

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SUMMARY OF RIVAS-MARTINEZ CLASSIFICATION

Continental Index [A2a]
 + Type: A. Hyperoceanic
 + Subtype: 2. Euhyperoceanic
 + Variant: a. High

Thermic types [A2.A1]
 + Latitudinal zone: A. Warm
 + Latitudinal belt: 2. Eutropical
 + Thermic type: A. Warm
 + Thermic subtype: 1. Torrid

Bioclimatic types [A4.1a.8b]
 + Macrobioclimate: A. TROPICAL
 + Bioclimate: 4. PLUVISEASONAL
 + Bioclimatic variant .: SUBXEROPHYTIC
 + Thermic type.....: 1. INFRATROPICAL
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 8. HYPERHUMID
 + Ombrothermic subtype : b. LOW

Bioclimatic ClassificationTrps(Sxe).Itr.Hhu.Eho

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 3066
 Coldest semester of the year.....(Psw): 2385
 Warmest four months period of the year.....(Pcm1): 693
 Following warmest four months period.....(Pcm2): 4415
 Positive precipitation dryest 3 months.....(Ppd): 26
 Positive precipitation dryest 2 months.....(Ppd2): 15
 Positive precipitation dryest 1 month.....(Ppd1): 5
 Positive precipitation warmest 3 months.....(Pps): 683
 Positive precipitation warmest 2 months.....(Pps2): 107
 Positive precipitation warmest 1 month.....(Pps1): 66
 Positive precipitation coldest 3 months.....(Ppw): 74
 Positive precipitation coldest 2 months.....(Ppw2): 15
 Positive precipitation coldest 1 month.....(Ppw1): 10

Seasons	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4
Rainfall	25	683	3573	1168

Tropical rainfall rhythms: 3 > 4 > 2 > 1

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 29.2
 Average coldest month [T].....(Tmin): 25.0
 Maximum temp. warmest month [M].....(Tmmax): 34.4
 Minimum temp. coldest month [m].....(Tmmin): 18.3
 Absolute Max.temp. warmest month [M'].....(Tamax): 38.9
 Absolute Min.temp. coldest month [m'].....(Tamin): 8.9
 First warmest contrasted month [M].....(Tcmax): 32.2 (1)
 First coldest contrasted month [m].....(Tcmin): 18.3 (1)
 Dry station temperature.....(Td): 770
 Positive temperature dryest 3 months.....(Tpd): 770
 Positive temperature dryest 2 months.....(Tpd2): 520
 Positive temperature dryest 1 month.....(Tpd1): 253
 Positive temperature warmest 3 months.....(Tps): 850
 Positive temperature warmest 2 months.....(Tps2): 572
 Positive temperature warmest 1 month.....(Tps1): 292
 Positive temperature coldest 3 months.....(Tpw): 770
 Positive temperature coldest 2 months.....(Tpw2): 503
 Positive temperature coldest 1 month.....(Tpw1): 250

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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): 0.30
 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)	102	51	102	406	660	5766	11227	12497	12015	8408	2693	584
Tp	250	253	267	281	292	278	261	258	258	261	270	267
Io (Iom)	0.41	0.20	0.38	1.45	2.26	20.8	43.0	48.4	46.5	32.2	9.99	2.19
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	255 / 770			6832 / 850			35739 / 778			11685 / 797		
Io (Iot)	0.331			8.037			45.95			14.66		
Semesters	December-May						June-November					
Pp(x10)/Tp	7087 / 1620						47424 / 1575					
Io (Iosm)	4.376						30.11					

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Aridity Value Index (AVI)

[10xPP/TP=IO]: 54511/3195=17.06 There is No Yearly Aridity

Months	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Pp [P*10]	102	51	102	406	660	5766	11227	12497	12015	8408	2693	584
Tp [T*10]	250	253	267	281	292	278	261	258	258	261	270	267
Iom [Pp/Tp]	41	20	38	145	226	\$\$	\$\$	\$\$	\$\$	\$\$	\$\$	219
Avm [200-Iom]	159	180	162	55	***	***	***	***	***	***	***	***
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp / Tp	255 / 770			6832 / 850			35739 / 778			11685 / 797		
Iot [Pp/Tp]	33			804			\$\$			1466		
Avs E[Avm<200]	501			***			***			***		
Lower hyperarid [1]							Upper hyperarid [2]					
Strong lower arid [1]							Weak lower semiarid [1]					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 4.17
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 8.70
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 3.36
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 0.73
 + Oceanic (0.6<CI<1.1)
 Rainfall Index of Lang (1925) [R=P/T]: 204.76
 + Humid (R>160)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 148.85
 + Perhumid (Ia>60)
 I of Emberger (1930) [Q=100*P/(Tmax²-Tmin²)]: 641.21
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 0.49
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 3.38
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 286.50
 + Very high (160<K)

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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	0.01	0.03	0.13	0.21	2.43	5.28	5.99	5.73	3.83	1.06	0.20	0.03
T-E ratio	11.38	12.00	12.63	13.13	12.50	11.75	11.62	11.62	11.75	12.13	12.00	11.25
Precipitation-effectiveness: 249.36						Temperature-efficiency: 143.76						
Moisture Index [MI=100*(P-PE)/PE]: 237.61 + A.Extremely humid (MI>100)												
Index of dryness [DI=100*d/PE]: 30.65 + Moderate deficit (16.7<DI<33.3)												
Index of humidity [HI=100*s/PE]: 202.94 + Strong surplus (20<HI)												
Potential Evapotranspiration PE: 1614.63 + Megathermic (PE>1440)												

