

Phytosociological Research Center
www.globalbioclimatics.org
Worldwide Bioclimatic Classification System
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STUNG TRENG (CAMBODIA) Altitude: 54 m.
Latitude: 13° 31'N Longitude: 105° 58'E
Temperature observation period.: 1968-1994 (27)
Rainfall observation period....: 1953-1994 (42)

(C/mm)	Ti	Mi	mi	M'i	m'i	Pi	EPI
Jan.	25.00	31.11	18.89	36.11	9.44	2.5	102.93
Feb.	26.67	32.78	20.56	37.22	11.11	12.7	125.91
Mar.	28.89	34.44	23.33	38.33	17.22	27.9	159.27
Apr.	30.00	35.00	25.00	40.56	20.00	83.8	170.05
May.	28.61	32.78	24.44	38.89	18.89	203.2	167.63
Jun.	27.78	31.67	23.89	37.22	19.44	276.9	157.41
Jul.	26.95	30.56	23.33	38.89	20.00	337.8	154.40
Aug.	27.23	30.56	23.89	38.89	19.44	309.9	152.65
Sep.	26.67	30.00	23.33	33.89	18.89	325.1	139.60
Oct.	26.39	30.00	22.78	33.89	17.22	188.0	131.08
Nov.	25.84	30.00	21.67	34.44	11.67	61.0	114.74
Dec.	24.17	29.44	18.89	33.89	10.00	12.7	89.27
Year	27.02	31.53	22.50	36.85	16.11	1841	1664.9

BIOCLIMATIC INDICES AND DIAGNOSIS

Thermicity index.....(It):	753
Compensated thermicity index.....(Itc):	753
Simple continentality index.....(Ic):	5.8
Diurnality index.....(Id):	12.2
Annual ombrothermic index.....(Io):	5.68
Monthly dry ombrothermic index.....(Iod1):	0.10
Bimonthly dry ombrothermic index.....(Iod2):	0.31
Threemonthly dry ombrothermic index.....(Iod3):	0.37
Fourmonthly dry ombrothermic index.....(Iod4):	0.87
Annual ombro-evaporation index.....(Ioe):	1.11
Annual positive temperature.....(Tp):	3242
Annual negative temperature.....(Tn):	-0
Dry station temperature.....(Td):	758
Positive precipitation.....(Pp):	1842

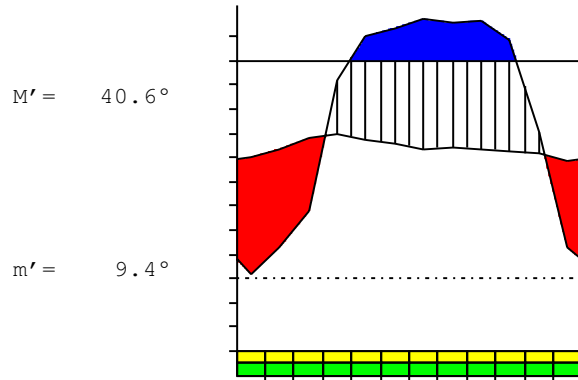
N. of	P>4T	P:2T-4T	PT-2T	P<T	T<0°
Months	6	2	0	4	0

Latitudinal Belt...: Eutropical
Continentalty.....: Hyperoceanic - High Euhyperoceanic
Bioclimate(Variant): TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
Bioclimatic belt...: UPPER INFRATROPICAL UPPER SUBHUMID

STUNG TRENG (CAMBODIA)

54 m

P= 1841 13° 31'N 105° 58'E 27/42 y.
 T= 27.0 ° Ic= 5.8 Tp= 3242 Tn= -0
 m= 18.9 ° M= 29.4 ° Itc= 753 Io= 5.7



**TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
 UPPER INFRATROPICAL UPPER SUBHUMID**

WATER INDEX CARD

STUNG TRENG (CAMBODIA)

Altitude: 54 m.

Latitude: 13° 31'N

(C/mm)	T	PE	P	VR	R	RE	DF	SP	DR	HC
Jan.	25.0	103	2	0	0	2	100	0	13	-0.9
Feb.	26.7	126	13	0	0	13	113	0	7	-0.8
Mar.	28.9	159	28	0	0	28	131	0	3	-0.8
Apr.	30.0	170	84	0	0	84	86	0	2	-0.5
May.	28.6	168	203	36	36	168	0	0	1	0.2
Jun.	27.8	157	277	64	100	157	0	55	28	0.7
Jul.	27.0	154	338	0	100	154	0	183	106	1.1
Aug.	27.2	153	310	0	100	153	0	157	131	1.0
Sep.	26.7	140	325	0	100	140	0	186	158	1.3
Oct.	26.4	131	188	0	100	131	0	57	108	0.4
Nov.	25.8	115	61	-54	46	115	0	0	54	-0.4
Dec.	24.2	89	13	-46	0	59	30	0	27	-0.8
Year	27.0	1665	1841	*	*	1203	462	638	638	*

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

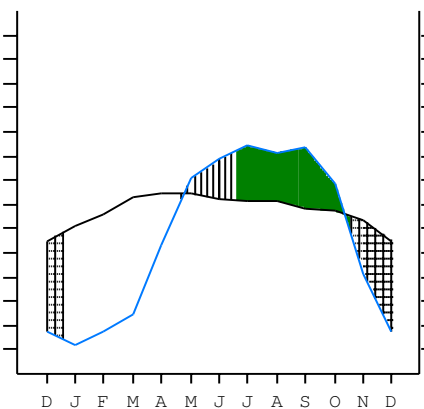
STUNG TRENG (CAMBODIA)

13°31'N 105°58'E 54 m 27/42 y.

T= 27.0 Ic= 5.8
 m= 18.9 Tp= 3242
 M= 29.4 Tn= -0
 M' = 40.6 Itc= 753
 m' = 9.4 Io= 5.7
 P= 1841 mm ———
 PE= 1665 mm ———

**TROPICAL PLUVISEASONAL (SUBXEROPHYTIC)
 UPPER INFRATROPICAL
 UPPER SUBHUMID**

	Imbibing	22 Apr.
■	Saturation	17 Jun.
▣	Reserve Use	16 Oct.
□	Deficit	19 Dec.



STUNG TRENG (CAMBODIA)

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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.6a]
 + Macrobioclimate: A. TROPICAL
 + Bioclimate: 4. PLUVISEASONAL
 + Bioclimatic variant .:
 + Thermic type.....: 1. INFRATROPICAL
 + Thermic subtype.....: a. UPPER
 + Ombrothermic type ...: 6. SUBHUMID
 + Ombrothermic subtype : a. UPPER

Bioclimatic Classification: Trde.Itr.Shu

STUNG TRENG (CAMBODIA)

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PRECIPITATION PARAMETERS

Warmest semester of the year.....(Pss): 1240
 Coldest semester of the year.....(Psw): 602
 Warmest four months period of the year.....(Pcm1): 592
 Following warmest four months period.....(Pcm2): 1161
 Positive precipitation dryest 3 months.....(Ppd): 28
 Positive precipitation dryest 2 months.....(Ppd2): 15
 Positive precipitation dryest 1 month.....(Ppd1): 2
 Positive precipitation warmest 3 months.....(Pps): 315
 Positive precipitation warmest 2 months.....(Pps2): 112
 Positive precipitation warmest 1 month.....(Pps1): 84
 Positive precipitation coldest 3 months.....(Ppw): 76
 Positive precipitation coldest 2 months.....(Ppw2): 15
 Positive precipitation coldest 1 month.....(Ppw1): 13

Seasons	Dec+Jan+Feb Ttr1-1	Mar+Apr+May Ttr2-2	Jun+Jul+Aug Ttr3-3	Sep+Oct+Nov Ttr4-4
Rainfall	27	314	924	574

Tropical rainfall rhythms: 3 > 4 > 2 > 1

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TEMPERATURE PARAMETERS

Average warmest month [T].....(Tmax): 30.0
 Average coldest month [T].....(Tmin): 24.2
 Maximum temp. warmest month [M].....(Tmmax): 35.0
 Minimum temp. coldest month [m].....(Tmmin): 18.9
 Absolute Max.temp. warmest month [M'].....(Tamax): 40.6
 Absolute Min.temp. coldest month [m'].....(Tamin): 9.4
 First warmest contrasted month [M].....(Tcmax): 31.1 (1)
 First coldest contrasted month [m].....(Tcmin): 18.9 (1)
 Dry station temperature.....(Td): 758
 Positive temperature dryest 3 months.....(Tpd): 758
 Positive temperature dryest 2 months.....(Tpd2): 517
 Positive temperature dryest 1 month.....(Tpd1): 250
 Positive temperature warmest 3 months.....(Tps): 875
 Positive temperature warmest 2 months.....(Tps2): 589
 Positive temperature warmest 1 month.....(Tps1): 300
 Positive temperature coldest 3 months.....(Tpw): 750
 Positive temperature coldest 2 months.....(Tpw2): 492
 Positive temperature coldest 1 month.....(Tpw1): 242

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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): 0.90
 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)	127	25	127	279	838	2032	2769	3378	3099	3251	1880	610
Tp	242	250	267	289	300	286	278	270	272	267	264	258
Io (Iom)	0.53	0.10	0.48	0.97	2.79	7.10	9.97	12.5	11.4	12.2	7.12	2.36
Seasons	Dec+Jan+Feb			Mar+Apr+May			Jun+Jul+Aug			Sep+Oct+Nov		
Pp(x10)/Tp	279 / 758			3149 / 875			9246 / 820			5741 / 789		
Io (Iot)	0.368			3.599			11.28			7.276		
Semesters	December-May						June-November					
Pp(x10)/Tp	3428 / 1633						14987 / 1609					
Io (Iosm)	2.099						9.317					

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BIOCLIMATIC INDICES I

CI of Supan (1884) [Tmax-Tmin](Sp): 5.83
 CI of Gorezinski (1920) [1.7*Sp/sin(Lat)-20.4]: 22.00
 CI of Conrad (1946) [1.7*Sp/sin(Lat+10)-14]: 10.84
 + Hyperoceanic (-20<CI<20)
 CI of Currey (1974) [CI=Sp/(1+Lat/3)]: 1.06
 + Oceanic (0.6<CI<1.1)
 Rainfall Index of Lang (1925) [R=P/T]: 68.16
 + Temperate warm (100>R>60)
 Aridity Index of Martonne (1926) [Ia=P/(T+10)]: 49.75
 + Humid (60>Ia>30)
 I of Emberger (1930) [Q=100*P/(Tmmax²-Tmmin²)]: 212.11
 + Humid (Q>90)
 I of Dantin & Revenga (1940) [DR=100*T/P]: 1.47
 + Humid (2>DR>0)
 Aridity Index of UNEP [I=P/PE]: 1.11
 + Humid (I>0.65)
 Potential Erosion I of Fournier (1960) [K=Pi²/P].....: 61.97
 + 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. Termoxerotic (Mediterranean warm)
- + Thermic type: 1. Megathermic

Thorntwaite (1948)												
	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
P-E ratio	0.01	0.04	0.08	0.27	0.75	1.08	1.37	1.23	1.32	0.72	0.21	0.04
T-E ratio	11.25	12.00	13.00	13.50	12.87	12.50	12.13	12.25	12.00	11.88	11.63	10.88
Precipitation-effectiveness: 71.03						Temperature-efficiency: 145.89						
Moisture Index [MI=100*(P-PE)/PE]: 10.60 + C2.Subhumid humid (0<MI<20) Index of dryness [DI=100*d/PE]: 27.72 + Moderate deficit (16.7<DI<33.3) Index of humidity [HI=100*s/PE]: 38.33 + Strong surplus (20<HI) Potential Evapotranspiration PE: 1664.94 + Megathermic (PE>1440)												

