

مثالی از تعیین اقلیم به روش کوپن

	1	2	3	4	5	6	7	8	9	10	11	12	سالانه
P (mm)	238.4	229.7	214.4	86	46.9	33.3	22	18.2	16.5	25.3	77.3	137.9	1145.9
T(C)	23.2	22.8	21.9	20	17.9	16	15.5	16.5	18.6	21	22.4	23.3	19.925
	1	1	1	1	1	1	1	1	1	1	1	1	

									1st	2nd	3rd	Description	Criteria*
MAP	1145.9	AMJJAS	T	17.417	Winter				A			Tropical	$T_{cold} \geq 18$
MAT	19.925	ONDJFM		22.433	summer					f		- Rainforest	$P_{dry} \geq 60$
Thot	23.3									m		- Monsoon	Not (Af) & $P_{dry} \geq 100 - MAP/25$
Tcold	15.5									w		- Savannah	Not (Af) & $P_{dry} < 100 - MAP/25$
Tmon10	12	A	Tcold =	15.5	<	18			B			Arid	$MAP < 10 \times P_{threshold}$
Pdry	16.5									W		- Desert	$MAP < 5 \times P_{threshold}$
Psdry	25.3	B	MAP =	1145.9	<	678.5	$10 \times P_{threshold}$			S		- Steppe	$MAP \geq 5 \times P_{threshold}$
Pwdry	16.5										h	- Hot	$MAT \geq 18$
Pswet	238.4	C	Thot =	23.3	>	10					k	- Cold	$MAT < 18$
Pwwet	86		Tcold =	15.5	>	(0,18)			C			Temperate	$T_{hot} > 10$ & $0 < T_{cold} < 18$
0.70MAF	802.13									s		- Dry Summer	$P_{sdry} < 40$ & $P_{sdry} < P_{wwet}/3$
Pwin	222.9	s	Psdry =	25.3	<	40				w		- Dry Winter	$P_{wdry} < P_{swet}/10$
Psum	923		Psdry =	25.3	<	79.467				f		- Without dry season	Not (Cs) or (Cw)
2*MAT+28	67.85										a	- Hot Summer	$T_{hot} \geq 22$
		w	Pwdry =	16.5	<	23.84					b	- Warm Summer	Not (a) & $T_{mon10} \geq 4$
											c	- Cold Summer	Not (a or b) & $1 \leq T_{mon10} < 4$
		a	Thot =	23.3	>	22			D			Cold	$T_{hot} > 10$ & $T_{cold} \leq 0$
										s		- Dry Summer	$P_{sdry} < 40$ & $P_{sdry} < P_{wwet}/3$
										w		- Dry Winter	$P_{wdry} < P_{swet}/10$
										f		- Without dry season	Not (Ds) or (Dw)
		D	Thot =	23.3	>	10					a	- Hot Summer	$T_{hot} \geq 22$
			Tcold =	15.5	>	0					b	- Warm Summer	Not (a) & $T_{mon10} \geq 4$
											c	- Cold Summer	Not (a, b or d)
		E	Thot =	23.3	>	10					d	- Very Cold Winter	Not (a or b) & $T_{cold} < -38$
									E			Polar	$T_{hot} < 10$
										T		- Tundra	$T_{hot} > 0$
										F		- Frost	$T_{hot} \leq 0$

MAP = mean annual precipitation,
MAT = mean annual temperature,
Thot = temperature of the hottest month,
Tcold = temperature of the coldest month,
Tmon10 = number of months where the temperature is above 10,
Pdry = precipitation of the driest month,
Psdry = precipitation of the driest month in summer,
Pwdry = precipitation of the driest month in winter,
Pswet = precipitation of the wettest month in summer,
Pwwet = precipitation of the wettest month in winter,
Pthreshold = varies according to the following rules:
(if 70% of MAP occurs in winter then $P_{threshold} = 2 \times MAT$,
if 70% of MAP occurs in summer then $P_{threshold} = 2 \times MAT + 28$,
otherwise $P_{threshold} = 2 \times MAT + 14$).
Summer (winter) is defined as the warmer (cooler) six month period of
ONDJFM and AMJJAS.