Cheatography

Climate Cheat Sheet
by Eunicornz via cheatography.com/33171/cs/11252/

Factors			
Equator	Hottest area		
Poles	Coolest Area		
At the equator,	the sun rays hit the Earth at the 90 degrees		
Latitude is the mos	st important factor		
High pressure = cool air	Low pressure = warm		
Difference in press	sure makes wind		
Doldrums	air rises&cool:lots of precipitation		
Subtropical Highs	little precipitation		
45 to 60	greater precipitation		
Subpolar Lows	precipitation is low		
Specific heat	energy needed to change the temperature of 1g of a substance by 1 degrees Celsius		
land heats up faster than ocean	land heats up more than ocean(hotter)		
ENSO	El Nino or El Nina		
El Nino - every 3-10 years	warm-water phase, moist America, and dry Asia		
temperature differences between land and ocean causes	the winds to shift seasonally		
Monsoon	Summer: wind moves toward land Winter: Wind moves toward water		
Temperature decreases as elevation increases			

Factors (cont) Rain when air mass meets mountain,

Temperature and Precipitation		
Chinook	Rain shadows of the Rocky Mountains	
Foehn	rain shadows of the Alps	
	and falls back down (warm and dry)	
Shadows	air mass rises (cools and dry)	

Climate	average weather condition in are over long period of time		
Daily average	(high + low)/2		
Monthly average	(∑daily averages)/#of days		
Yearly average	average the monthly averages		
However, yearly temperature range is better			

Climate Zones			
Tropical Clir	nates		
Climate	Temp/Precipi- tation	Describe	
Rainforest	small temp range; annual 200cm	lush vegetation with broadlp	
Desert	large temp range; annual 25cm; no sibling	no vegetation	
Savanna	small temp range; annual 50cm; alternative wet/dry	open grassland with drought- uk	

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Climate Zones (cont)

Climate Zo	ones (cont)	
Savanna	small temp range; annual 50cm; altern- ative wet/dry	open grassland with drought- uk
Middle Latitude	low tmep range; frequent rain	deciduous trees; forests
Marine West Coast	low tmep range; frequent rain	deciduous trees; forests
Steppe	large temp range; annual 40cm	drought-resi- stant vegetation and ome
contin- ental	large temp range;<75cm	evergreen teas
subtro- pical	large temp range; annual is 75-165cm.	broadleaf and evergreen trees
Medite- rranean	low temp range; annual 40cm	broadleaf and evergreen; long summers
Polar	large temp range(- 63C);annual 25-50cm	Evergreen Trees, brief, cool summers, long winters
Subartic	large temp range(- 63C);annual 25-50cm	Evergreen Trees, brief, cool summers, long winters
Tundra	average temp is below 4C; annual 25cm	treeless plains; 9 months of temp below freezing
Polar Icecaps	average temp is 0C; low annual	little or no llife; temp is going to stay as below freezing.

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Clim	ate Cheat Sheet
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Climate Zo	nes (cont)			
Microc- limate	climate of a small area	elev	etation, ation, imity to er	
Local Climates: Elevation	elevation in decreases	crease, te	mperature	
Highland	Cities in the mountains of tropical area	or itatio	er precip- on	
Local Climates: Water	precipitatior smaller tem range		er precip- on	
Climate Ch	ange			
Method	Measured	Indicate	d time	
ice cores	concen-	CO2	hundreds	

tration of

gases in

ice and

sea-floor

sediment

Fossils

meltwater

concen-

tration of

shells of

organisms

180

micro

pollen

shape, animal

body

tions

adapta-

type, leaf

indicate

climate;

ice ages follow decrease in CO2

High

levels of

18O=cool

water;

less 180

= warm water

flower

pollens&-

broad 2=

\$; ♣

pollen-

s&waxy

Ø = 🍋; animal fossils show changes to climate change

warm

	Climat	e Chang	e (cont)	
ion,	Tree	ring	thin = cool	hundreds
on,	rings	width	weather and	to
ty to			less precip-	thousands
			itation	of years
erature	Climat	e Chang	е	
	Gener	al circul-	incorporate	millions of
precip-	ation n (GCM)		pieces of da	ta
precip-	GCMS simulate change in only one variable at a time			/ one variable
	GCMS are prediction machines			
	Potent	ial Caus	e of Climate Ch	ange
time	Plate t	ectonics		hanges wind
hundreds			flow and oce	ean currents
	Orbital	Change	Milankovitch	1 theory
of thousands of years	Milank theory 21,000 0,000	(Every)-10-	changes in l tilt, and axis	Earth's orbit,
	Orbit		Elliptical to o causes diffe distances fro	rent
hundreds of thousands of years	Tilt		Decreases t difference b season	emperature etween each
5	Axis		changes tilt the seasons	and reverses
millions of	Humar	n Activity	pollution and trees	d burned
years	Volcar	ioes	erupts sulfu decreases to by reflecting space	
	Potent	ial Impac	cts	
	_			

Climate Change (cont)

Global warming	dry: extinction, crop suffer; ice poles melt: sea-level change		
Sea-level change	Coastal cities are wiped out		
What Can We Do?			
Individual	Less energy usage		
Transp- ortation	hybrid cars or consistent speed		

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