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 mo	st important factor
High pressure = cool air	Low pressure = warm
Difference in pres	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 decr increases	eases as elevation

Factors (cont) Rain when air mass meets mountain, Shadows air mass rises (cools and dry) and falls back down (warm and dry) Egebn rain shadows of the Alps

Foenn	rain shadows of the Alps
Chinook	Rain shadows of the Rocky
	Mountains

Temperature and Precipitation			
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 Climates Climate Temp/Precipi-Describe tation Rainforest small temp lush range; annual vegetation 200cm with broadlp Desert large temp range; no annual 25cm; no vegetation sibling Savanna small temp open grassland range; annual 50cm; alternative with wet/dry droughtuk

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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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Climate Zones (cont)				Climate Change (cont)			
Microc- limate	climate of a small area	vegeta elevatio proxim water	on,	Tree rings	ring width	thin = cool weather and less precip- itation	hundreds to thousands of years
Local	Local elevation increase, temperature						
Climates: Elevation	decreases				e Chang		
Highland	Cities in the mountains of	0	precip-		al circul- nodels)	incorporate r pieces of dat	
	tropical areas		GCMS simulate change in only one variable				
Local	precipitation, higher precip-		at a time				
Climates:	smaller tem	p itation		GCMS are prediction machines			
Water	range			Potent	ial Cause	e of Climate Cha	ange
Climate Ch	ange Measured	Indicated	time	Plate t	ectonics	change in po continents ch	nanges wind
mourou	mododrod	CO2	hundreds			flow and oce	
100 00103	ce cores concen- CO2 tration of indicate gases in warm ice and climate; meltwater ice ages follow		of	Orbital Change Milankovitch the		-	
			thousands of years	21,000	(Every	changes in E tilt, and axis	Earth's orbit,
		decrease in CO2		Orbit		Elliptical to c causes differ distances fro	rent
sea-floor sediment	concen- tration of 18O shells of	High levels of 18O=cool water;	hundreds of thousands of years	Tilt		Decreases te difference be season	
	micro organisms	less 18O = warm	,	Axis		changes tilt a the seasons	and reverses
Fossils	pollen	water flower	millions of	Huma	n Activity	pollution and trees	l burned
	type, leaf shape, animal body	e, leaf pollens&- years ape, broad ∕⁄?= mal ۞; ≵		Volcanoes		erupts sulfur and ash; decreases temperature by reflecting sunlight into space	
	adapta-	s&waxy		Potent	ial Impac	ts	
	tions	ø = ♣; animal					

Climate Change (cont)

Global	dry: extinction, crop suffer; ice	
warming	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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fossils show changes to climate change

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