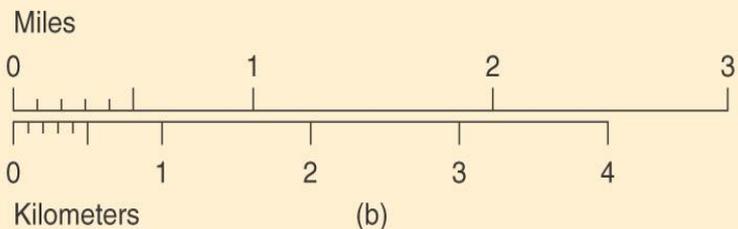


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(a)



(b)

$$\frac{1}{62,500} \quad 1:62,500$$

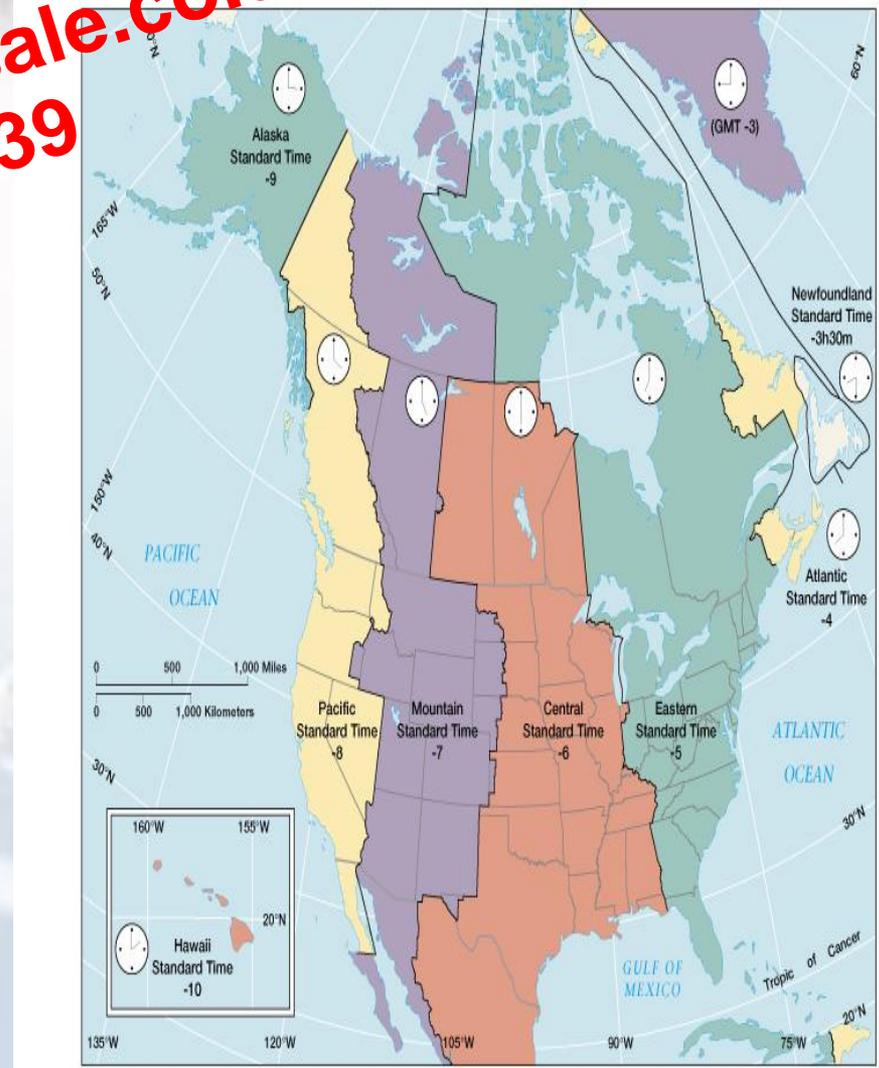
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U.S./Canada Time Zones

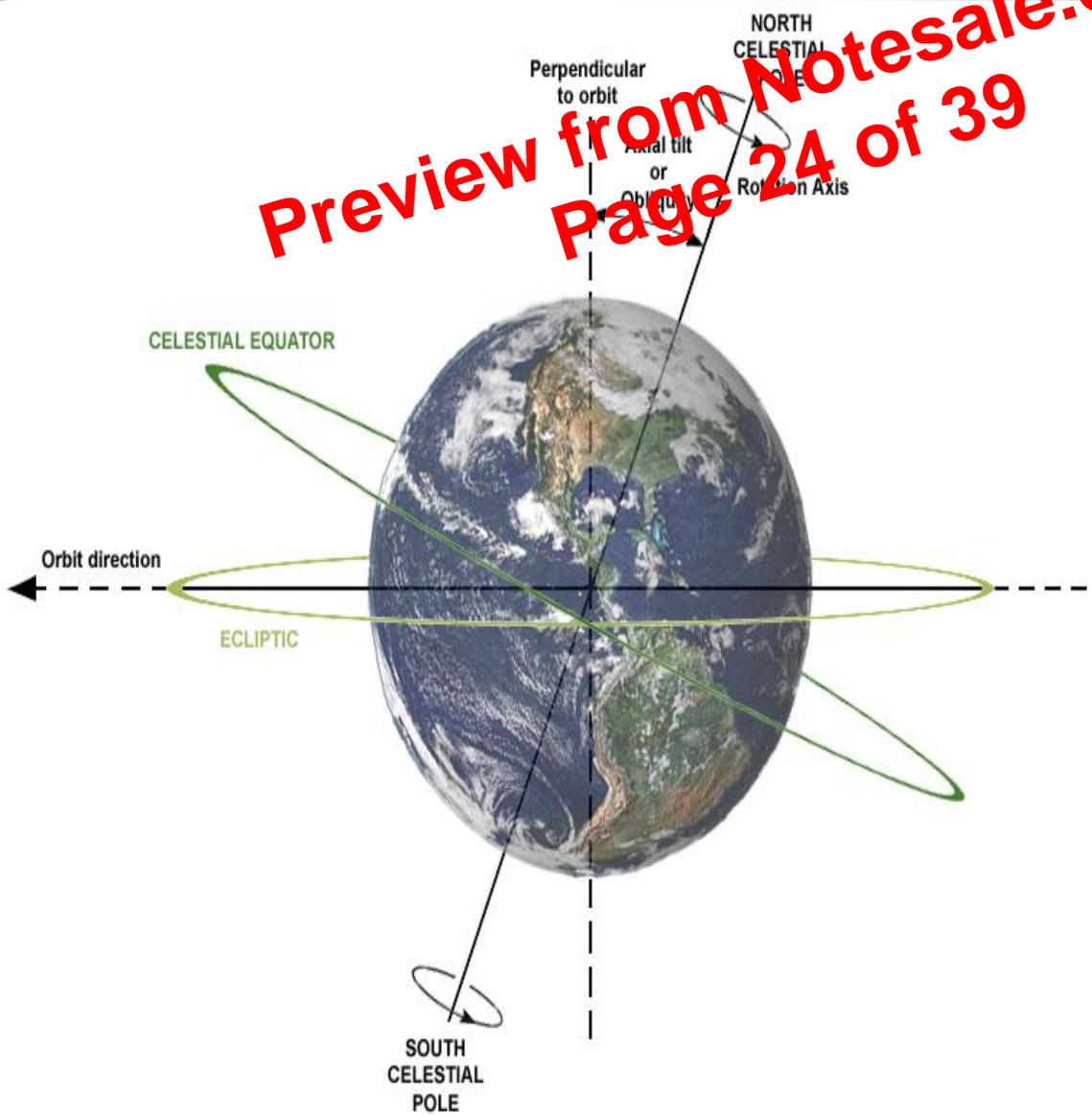
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Country	Number of Time Zones
USA	9
Canada	6
Russia	11
China	1



Axial Tilt

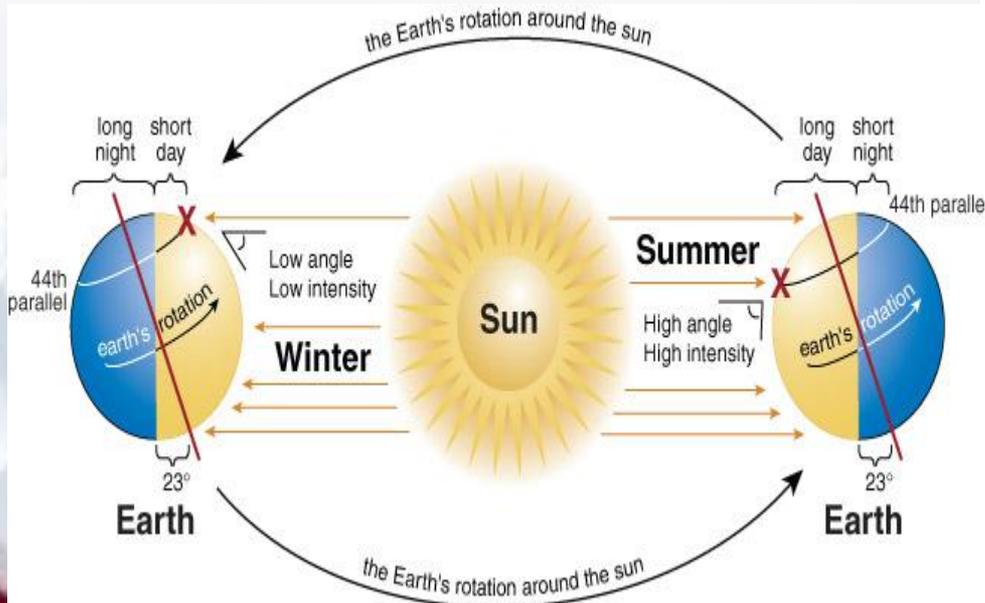
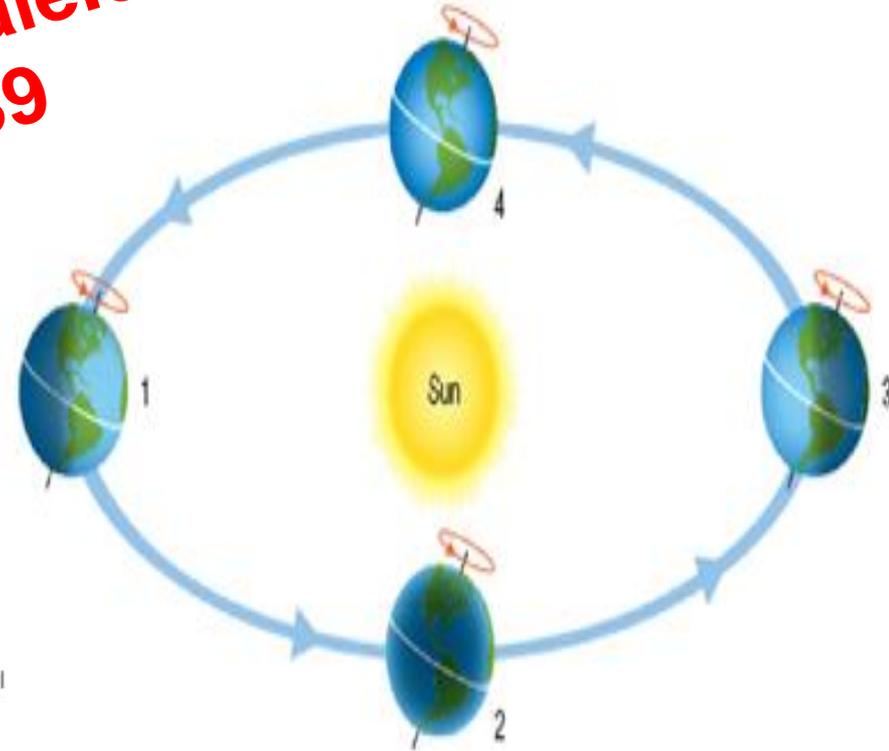
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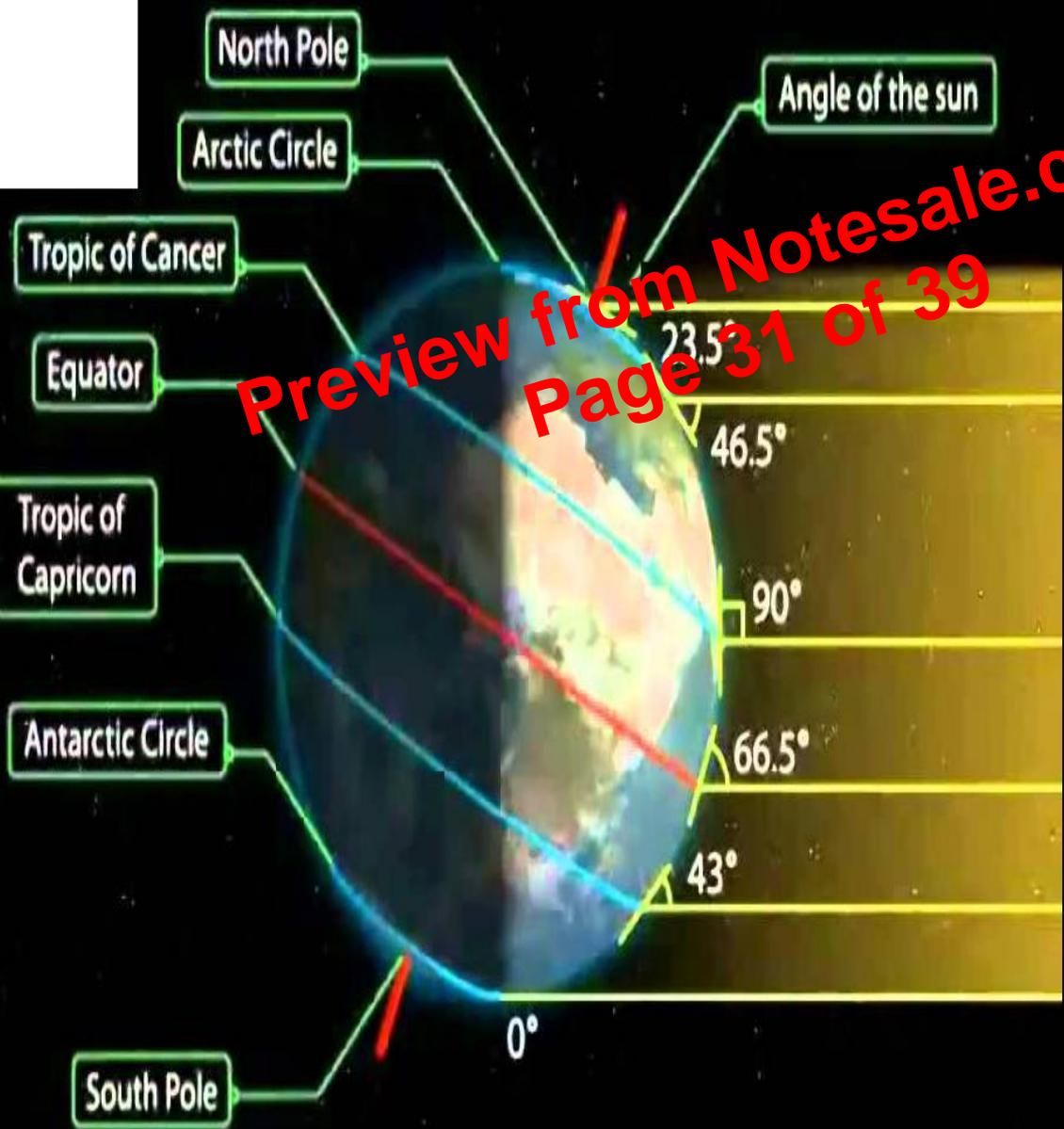


- Earth revolves around the sun in an elliptical orbit, which takes approximately 365 days to complete.
- The plane by which Earth circles around the sun is called the "**plane of the ecliptic.**"
- The angle between Earth's equatorial plane and the plane of the ecliptic is called the **angle of inclination**, which is the same as the axial tilt of the planet.

Rotation of the Earth

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ANGLE OF DECLINATION → At Summer solstice

Geological Time Scale



Eons	Era	Period	Epoch	Age/ Years Before Present	Life/ Major Events	
	Cainozoic (From 65 million years to the present times)	Quaternary	Holocene Pleistocene	0 - 10,000 10,000 - 2 million	Modern Man Hominid Apes	
		Tertiary	Pliocene Miocene	2 - 5 million 5 - 24 million	Early Human Ancestor Ape: Flowering Plants and Trees	
			Oligocene Eocene	24 - 37 Million 37 - 58 Million	Anthropoid Ape Rabbits and Hare	
			Palaeocene	58 - 65 Million	Small Mammals : Rats - Mice	
	Mesozoic 65 - 245 Million	Cretaceous		65 - 144 Million	Extinction of Dinosaurs	
		Jurassic Triassic		144 - 208 Million 208 - 245 Million	Age of Dinosaurs Frogs and turtles	
	Palaeozoic 245 - 570 Million		Permian		245 - 286 Million	Reptile dominate-replace amphibians
			Carboniferous		286 - 360 Million	First Reptiles: Vertebrates: Coal beds
			Devonian Silurian		360 - 408 Million 408 - 438 Million	Amphibians First trace of life on land: Plants
			Ordovician Cambrian		438 - 505 Million 505 - 570 Million	First Fish No terrestrial Life : Marine Invertebrate
Proterozoic Archean	Pre-Cambrian		570 - 2,500 Million	Soft-bodied arthropods		
Hadean			2,500 - 3,800 Million	Blue green Algae: Unicellular bacteria		
	570 Million - 4,800 Million		3,800 - 4,800 Million	Oceans and Continents form - Ocean and Atmosphere are rich in Carbon dioxide		
Origin of Stars	5,000 - 13,700 Million			5,000 Million	Origin of the sun	
Supernova				12,000 Million	Origin of the universe	
Big Bang				13,700 Million		

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