



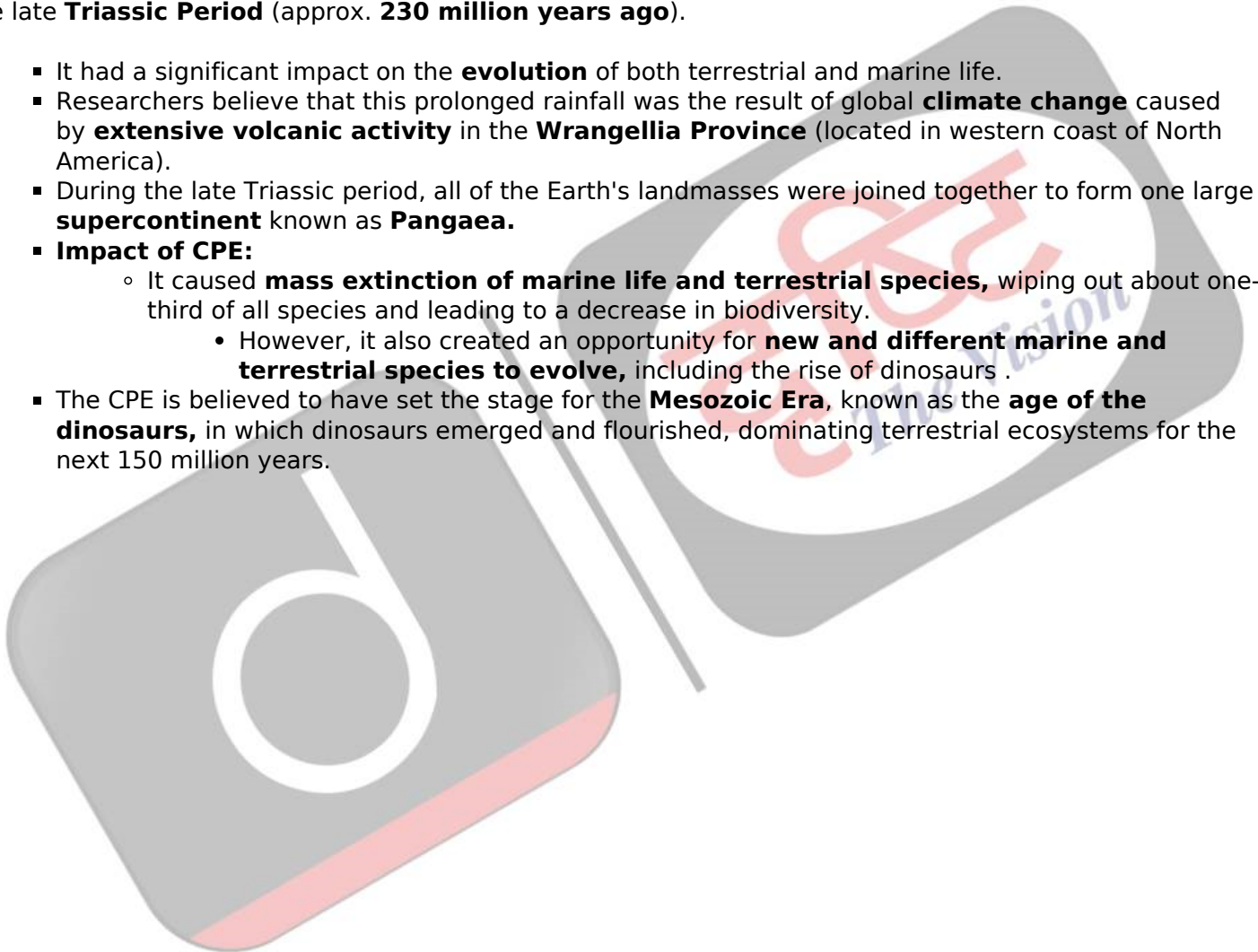
Carnian Pluvial Episode

[Source:TH](#)

The **Carnian Pluvial Episode (CPE)** was a period of **extended and intense rainfall** that occurred in the late **Triassic Period** (approx. **230 million years ago**).

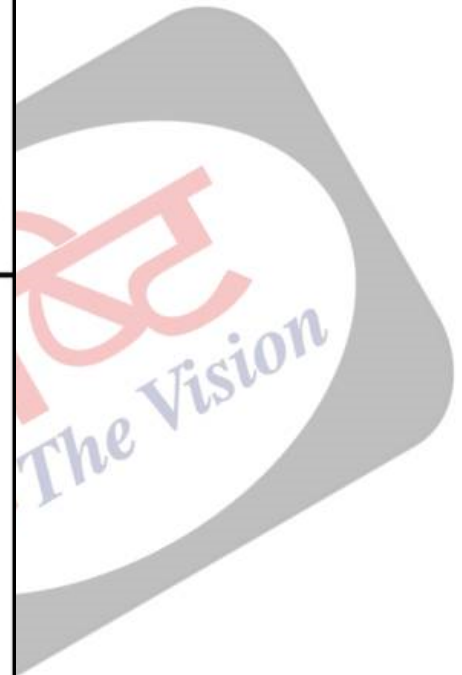
- It had a significant impact on the **evolution** of both terrestrial and marine life.
- Researchers believe that this prolonged rainfall was the result of global **climate change** caused by **extensive volcanic activity** in the **Wrangellia Province** (located in western coast of North America).
- During the late Triassic period, all of the Earth's landmasses were joined together to form one large **supercontinent** known as **Pangaea**.
- **Impact of CPE:**
 - It caused **mass extinction of marine life and terrestrial species**, wiping out about one-third of all species and leading to a decrease in biodiversity.
 - However, it also created an opportunity for **new and different marine and terrestrial species to evolve**, including the rise of dinosaurs .
- The CPE is believed to have set the stage for the **Mesozoic Era**, known as the **age of the dinosaurs**, in which dinosaurs emerged and flourished, dominating terrestrial ecosystems for the next 150 million years.

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Geologic Time Scale

Eon	Era	Period	Epoch	MYA	Life Forms			
Phanerozoic	Cenozoic (CZ)	Quaternary (Q)	Holocene (H)	0.01	Age of Mammals	Extinction of large mammals and birds Modern humans		
			Pleistocene (PE)					
		Tertiary (T)	Neogene (N)	Pliocene (PL)		2.6	Age of Reptiles	Placental mammals Early flowering plants Dinosaurs diverse and abundant
				Miocene (MI)		5.3		
			Paleogene (PG)	Oligocene (OL)		23.0		
				Eocene (E)		33.9		
	Paleocene (EP)	56.0	Age of Amphibians	Early primates				
		66.0			Mass extinction			
	Mesozoic (MZ)	Cretaceous (K)		145.0	Age of Reptiles	Placental mammals Early flowering plants		
			Jurassic (J)					
		Triassic (TR)		201.3		Mass extinction First dinosaurs; first mammals Flying reptiles		
				251.9			Mass extinction	
		Paleozoic (PZ)	Permian (P)			298.9	Age of Amphibians	Coal-forming swamps Sharks abundant First reptiles
	Pennsylvanian (PN)							
	Mississippian (M)			323.2				
	Devonian (D)			358.9	Fishes	Mass extinction First amphibians First forests (evergreens)		
			Silurian (S)	419.2				
	Ordovician (O)			443.8	Marine Invertebrates	First land plants Mass extinction Primitive fish Trilobite maximum Rise of corals		
Cambrian (C)			485.4					
			541.0		Early shelled organisms			
Proterozoic					Complex multicelled organisms			
Archean	Precambrian (PC, W, X, Y, Z)		2500		Simple multicelled organisms			
			4000		Early bacteria and algae (stromatolites)			
Hadean					Origin of life			
				4600	Formation of the Earth			



Read more: [Mass Extinction](#), [Bharitalasuchus Tapani: A Carnivorous Reptile](#), [Footprints of 3 Dinosaur Species: Rajasthan](#)

