



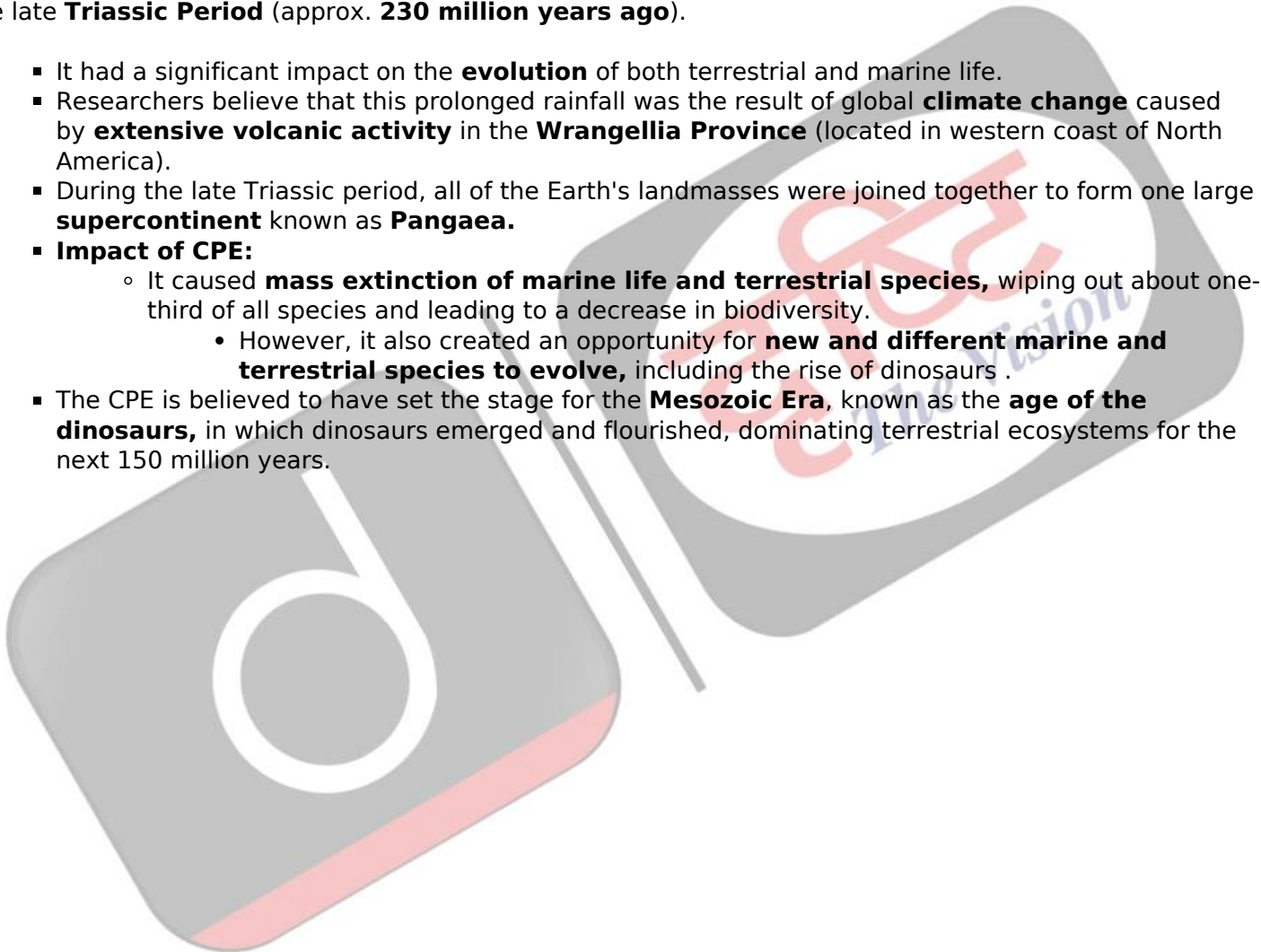
## Carnian Pluvial Episode

[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**).

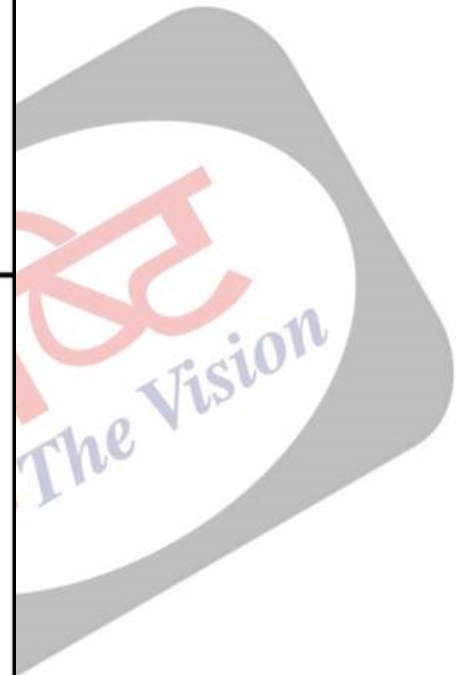
- It had a significant impact on the **evolution** of both terrestrial and marine life.
- Researchers believe that this prolonged rainfall was the result of global **climate change** caused by **extensive volcanic activity** in the **Wrangellia Province** (located in western coast of North America).
- 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	Spread of grassy ecosystems
				Miocene (MI)		5.3		
			Oligocene (OL)	23.0				
		Paleogene (PG)		Eocene (E)		33.9	Age of Amphibians	Early primates
				Paleocene (EP)		56.0		
						66.0		
		Mesozoic (MZ)	Cretaceous (K)			145.0	Age of Fishes	Placental mammals Early flowering plants
				Jurassic (J)		201.3		
	Triassic (TR)			251.9	Age of Invertebrates	Dinosaurs diverse and abundant <b>Mass extinction</b> First dinosaurs; first mammals Flying reptiles		
				251.9				
	Paleozoic (PZ)	Permian (P)		298.9	Age of Amphibians	Coal-forming swamps Sharks abundant First reptiles		
			Pennsylvanian (PN)	323.2				
			Mississippian (M)	358.9				
		Devonian (D)		419.2	Age of Fishes	<b>Mass extinction</b> First amphibians First forests (evergreens)		
			Silurian (S)	443.8				
		Ordovician (O)		485.4	Marine Invertebrates	First land plants <b>Mass extinction</b> Primitive fish Trilobite maximum Rise of corals		
			Cambrian (C)	541.0				
		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](#)

