

## The Big Five Mass Extinctions

Extinction is a normal part of the evolutionary process and most species that have ever existed are not living today. The normal loss of species through time is generally balanced by the rise of new species. Mass extinctions, however, disrupt this balance—representing times when many more species go extinct than are replaced by new ones.

Scientists have found evidence of five mass extinction events during Earth's history. What caused these “Big Five” extinction events? And are we about to enter a sixth mass extinction?

The graph shows estimated rates of extinction plotted over geologic time. The fossil record reveals that these rates fluctuate around a generally low level, but peak at certain points in Earth's history, indicating mass extinction events.

## The Sixth Mass Extinction?

A large number of current ecological threats have moved extinction rates above normal levels and potentially put numerous species on the path to extinction. If left unchecked, some scientists predict that within a few human generations, the sixth mass extinction will become inevitable.

