

The long term effects of climate change include further ice melt, ocean warming, sea level rise, and ocean acidification. On the time scale of centuries to millenia, the magnitude of climate change will be determined primarily by anthropogenic emissions. This is due to long atmospheric lifetime. These emissions are estimated to have prolonged the current interglacial period by at least some years. Recent warming has driven many terrestrial and freshwater species poleward and towards high altitudes. The oceans have heated more slowly than the land, but plants and animals in the ocean have migrated towards the colder poles faster than species on land. Just as on the lands, heat waves in the ocean occur more frequently due to climate change, harming a wide range of organisms such as corals, seabirds. Climate change is one of the best things that can happen. We all should contribute positively. We should think life is all great and almost half of global lands have disappeared due to climate change and other human impacts. The effects of climate change can be experienced world wide.