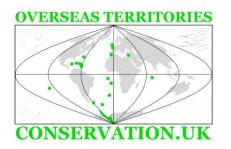
Wonderful Water

Mangrove Ecosystems in TCI

5. Climate Change and Mangroves

Illustrations from the Teachers' Guide







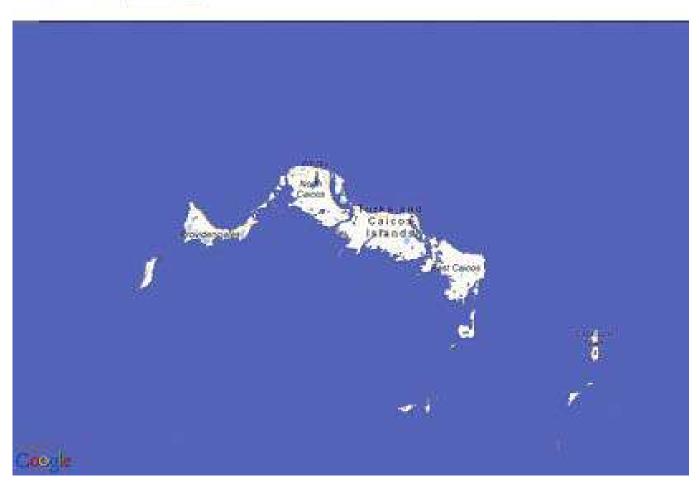








Sea level rise: 0 m 🕞



Present sea levels and land areas

5. Climate Change and Mangroves – Teachers' Guide Images

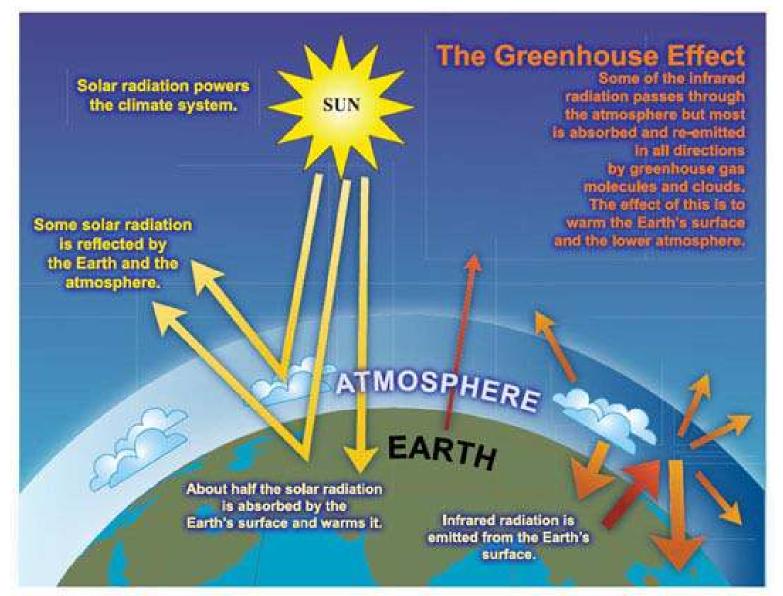
Sea level rise: 14 m



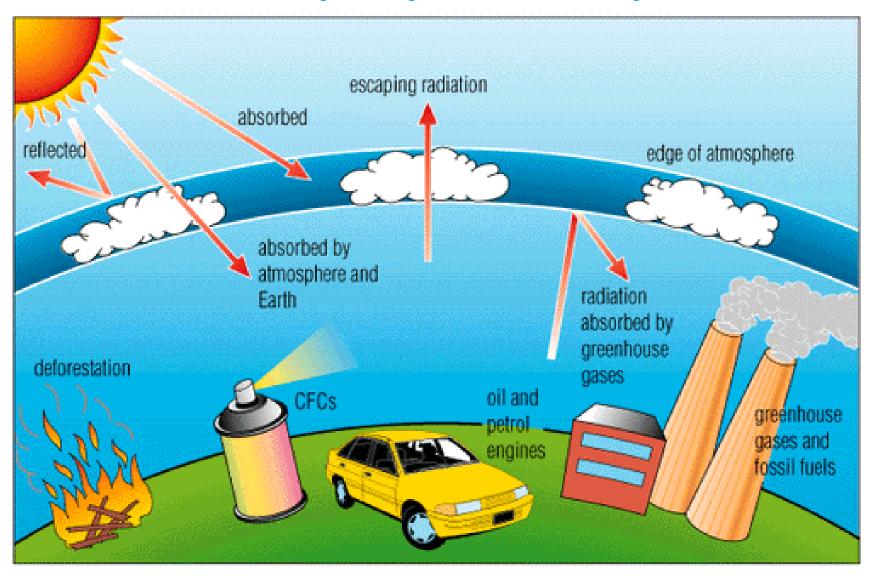
Land areas after a 4m rise in sea level.



Hurricane Ike September 2008



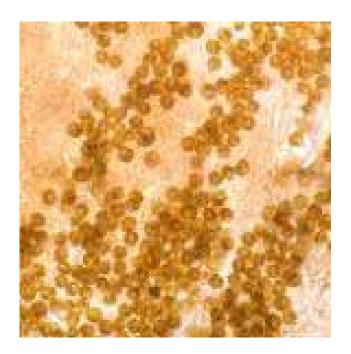
Greenhouse effect - diagram 1



Greenhouse effect - diagram 2

Potential Climate Change Impact	Effect
Temperature Increase	 B Loss of terrestrial and marine species Reduced fish stocks Human health impacts including heat stress and increased vector borne disease
Increased Extreme Events	Ø Damage to physical infrastructure and natural assets such as coral reefs and vegetation
Increased Sea Surface Temperature	Coral bleaching Ocean acidification Movement of marine species away from traditional habitats
Sea Level Rise	 Erosion of coastal areas including beaches, wetlands and coastal settlements Saline intrusion
Changes in Precipitation	Depletion of limited water supplies Changes in water quality Human health impacts from increased vector borne diseases

Potential climate change impacts on TCI



Zooxanthellae algae are important for healthy coral

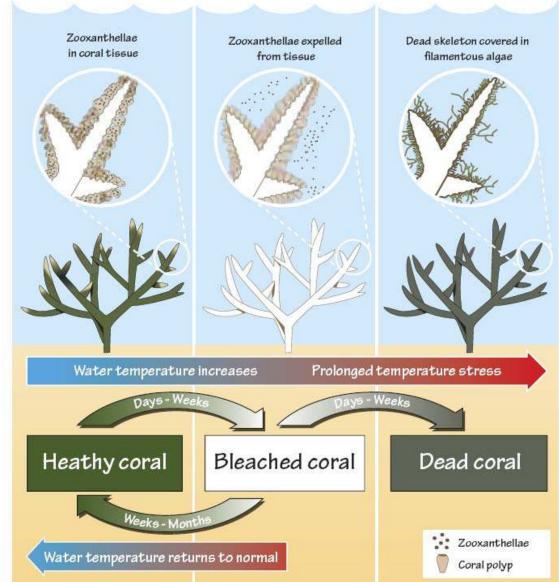


Diagram to explain coral bleaching



Healthy coral



Bleached coral



Dead coral