



The Story So Far

• Few species will be able to tolerate the effects of global warming, but some are particularly at risk such as those in polar regions, those that cannot adapt and those whose populations are already too small to cope with rapid changes.

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 Based on IUCN assessments, 35% of birds, 52% of amphibians and 71% of warm water reef-building coral species are susceptible to climate change







What makes a species susceptible to climate change?

- Specialized habitat and/or microhabitat requirements
- Narrow environmental tolerances

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- Dependence on specific environmental triggers that are likely to be disrupted by climate change
- Dependence on interspecific interactions that are likely to be disrupted by climate change
- Poor ability to disperse to or colonise a new or more suitable range



The case of the orang-utan

 Where orang-utans live is determined by the availability of food, good quality habitat and mates.

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- Orang-utans are mainly frugivorous (fruit-eating), but their diet also includes leaves, liana (woody vines), bark and small invertebrates.
- Changing seasons can affect flowering and fruiting cycles of plants that the orang-utans depend on and therefore impact the food supply
- Forest fires during prolonged and more severe droughts also directly impact the orang-utan























