NOVEMBER 2017

20

OCEAN WARMING

- The ocean absorbs most of the excess heat from greenhouse gas emissions, leading to **rising ocean temperatures**.
- Increasing ocean temperatures **affect marine species and ecosystems**. Rising temperatures cause coral bleaching and the loss of breeding grounds for marine fishes and mammals.
- Rising ocean temperatures also affect the benefits humans derive from the ocean threatening food security, increasing the prevalence of diseases and causing more extreme weather events and

OCEAN WARMING

temperatures, coupled with ocean acidification (the decrease in pH of the ocean due to its uptake of CO_2), affect marine species and ecosystems and, consequently, the fundamental benefits humans derive from the ocean.

The consequences of excess heat from greenhouse gas emissions. Redrawn and modified after von Schuckmann et al. (2016).

pl Impact on marine species and ecosystemsci and ecosystemscieco ecoe12.1(sp4st)-5.5(s)-12.2(yst)-6.3(em)-16(s)-10MI

20