Met Office

UK sea-level rise beyond the 21st century

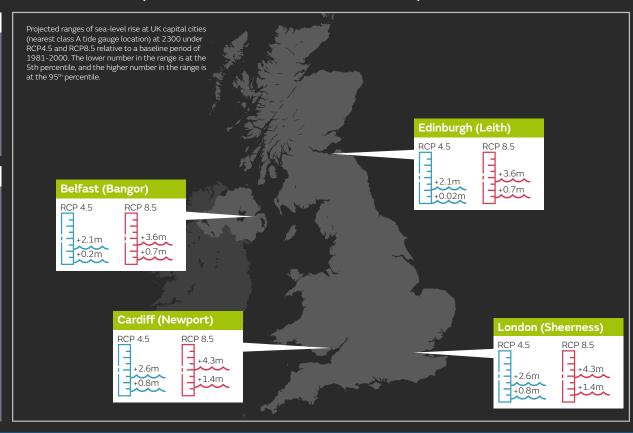
Sea-level rise projections beyond 2100

Sea levels will continue to rise after 2100 even if we greatly reduce greenhouse gas emissions. The Met Office has projected how sea level will rise up to 2300 around the UK coastline. The amount of sea-level rise increases under higher emissions scenarios, however projecting further into the future introduces more uncertainty.

Why are future sea levels uncertain?

Sea-level projections to 2300 have a much larger degree of uncertainty associated with them as we do not know what emissions pathway we will follow. Even if global temperatures stop rising, there is a long-term commitment to sea-level rise because the ocean is slow to respond to changes in the atmosphere.

Sea levels could rise further. An additional source of uncertainty is whether ice sheets in Antarctica and Greenland will melt steadily, or rapidly collapse (after reaching a tipping point). In UK Climate Projections (UKCP18), projections of sea-level change out to 2300 were called "exploratory" projections.









Scan the QR code to learn more about IPCC's Sixth Assessment Report (AR6)



Scan the QR code to learn more about UKCP18 sea-level projections