Observed change	Expected change by mid- century	Global warming of 2°C above preindustrial levels by 2100	Global warming of 4°C above preindustrial levels by 2100
0.6°C from 1981 – 2000	~1.3°C from 1981 – 2000	~1.5°C from 1981 – 2000	~3°C from 1981 – 2000
10 - 25% chance of a '2018 summer', up from <10% a few decades ago	~50% chance each year	~50% chance each year	>>50% chance each year
O no significant long term trend	~10% drier than over 1981 – 2000	~15% drier than over 1981 – 2000	~30% drier than over 1981- 2000
O no significant long term trend	~5% wetter than over 1981 – 2000	~5% wetter than over 1981 – 2000	~20% wetter than over 1981 – 2000
O Some increase, but no significant long-term trend	~10% increase	~20% increase	~50% increase
~6.5cm above 1981-2000	10 – 30cm above 1981-2000	25 – 45cm above 1981-2000	55 – 80 cm above 1981-2000
Average annual temperatures	UK Hot summer' occurrence	Average summer rainfall	Average winter rainfall
Heavy rainfall	Sea level rise		

given are indicative of the made of the range of local changes expected across most of the UK.

Heavy rainfall is here defined as the mean of the wettest 5% in the distribution of hourly rainfal overwinter. Future projections taken from Sayers et al. (2015) Projections of future flood risk for the UK.

Future sea level changes are given as a range across UK capital cities (50th percentile of projections). Future projections are taken from the UKCP18 Marine Projections for the RCP2.6 and RCP8.5 scenarios which carrespond to global warming levels of 2°C and 4°C by 2100 respectively (50th percentiles). Change to 2050 are the range of 50th percentile change across UK capital cities and the RCP2.6 – RCP8.5 scenarios.

Throughout this table values are rounded. Climate response uncertainty means that a broaderrange of changes are possible around the central estimates proceeded in this table.