

REINFORCES UNDERSTANDING

The UKCP suite of products provides estimates of the range of potential outcomes of future climate to allow you to make informed decisions that are resilient to climate change now and in the future.

UK Climate Projections

Many users may use several UKCP tools together to make the best informed decisions

Probabilistic (25km) projections - estimates of different future climate outcomes from several collections of computer models combined with observations using advanced statistical methods. Provide the broadest uncertainty range.

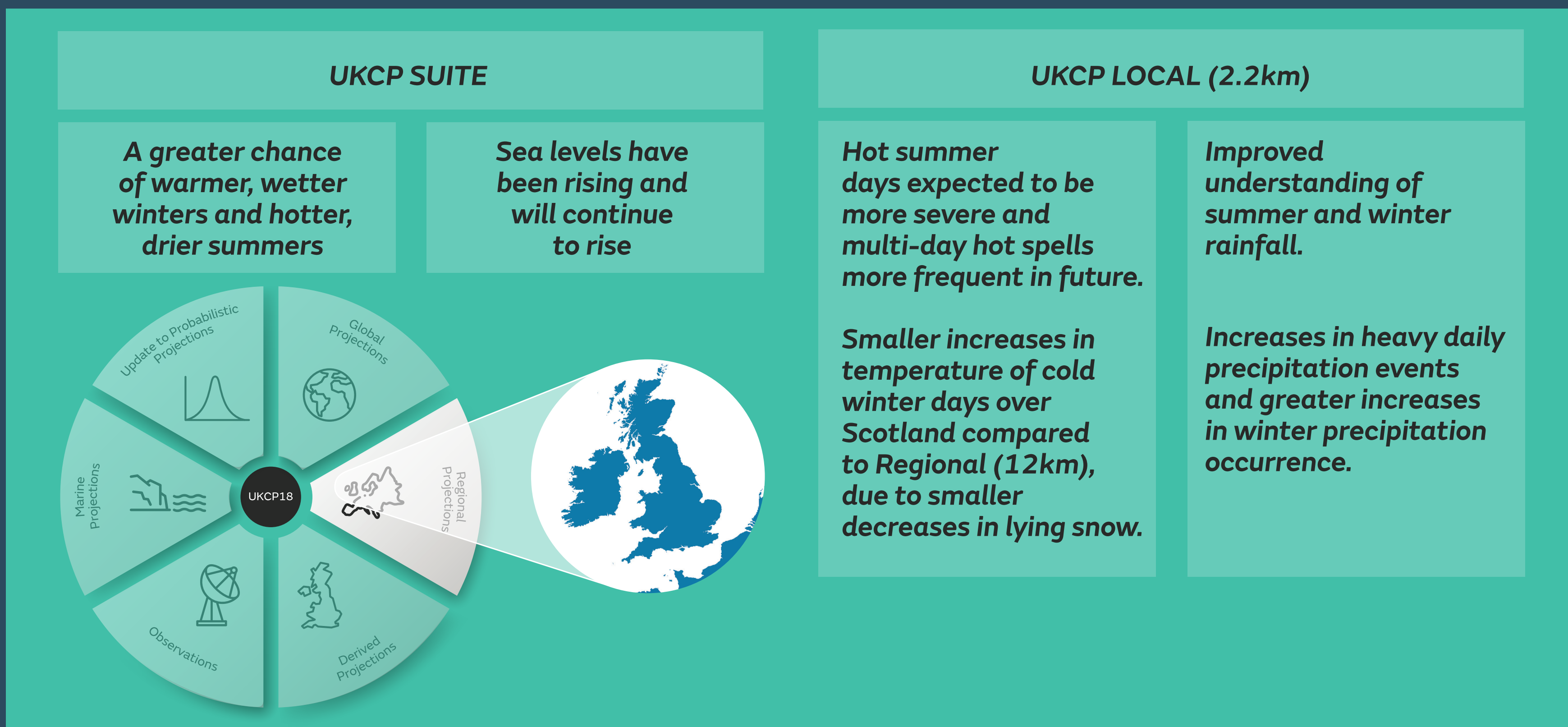
Global (60km) projections -simulations from the Met Office Hadley Centre climate model and other global climate models.

Regional (12km) projections for the UK and Europe - narrower sampling of uncertainty than the Global (60km) projections, since only driven by the Hadley Centre climate model.

Daily, monthly, seasonal, annual and long term average observations of temperature and precipitation from late 19th Century to present day. Including trends, multi-decade climate record and significant weather events.

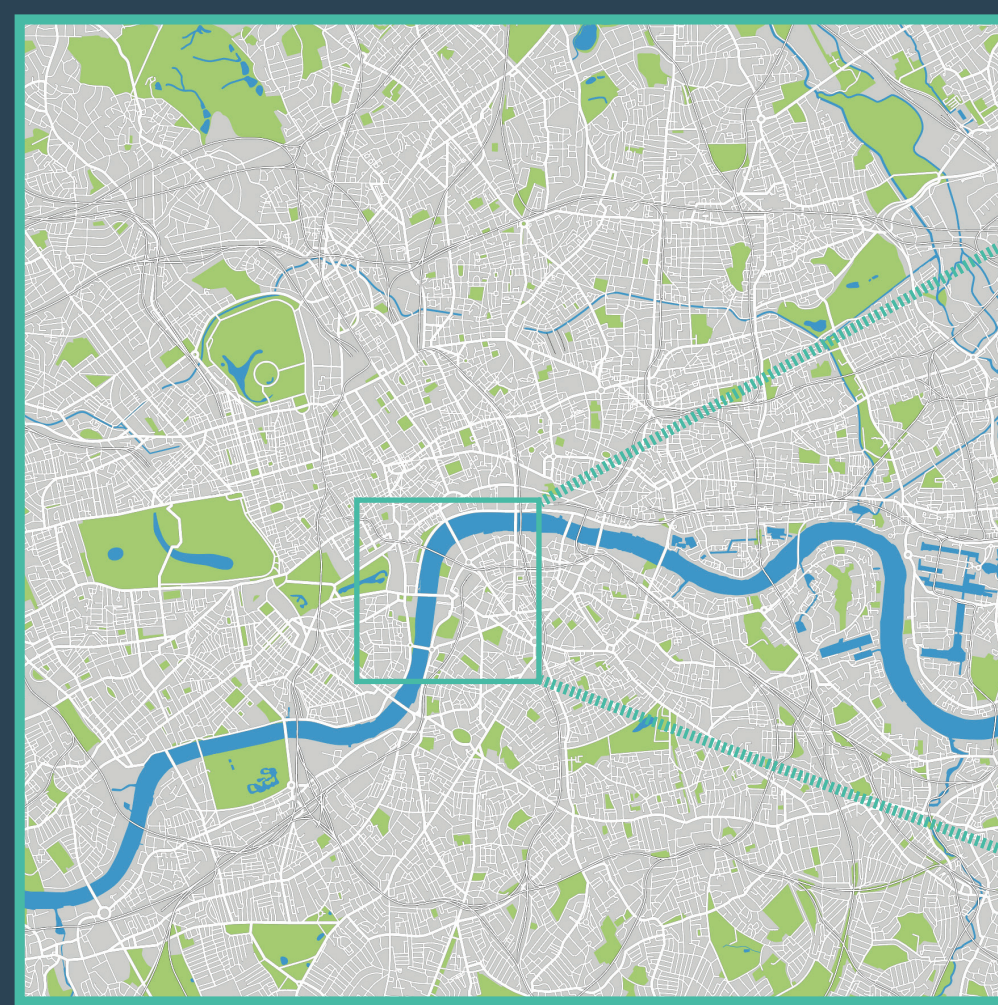
The global and regional projections offer users the ability to explore climate variability and change for a wider range of variables.

UKCP Local (2.2km) provides new climate change information at a resolution on par with operational weather forecast-models, enabling assessment of changes in small-scale weather events (e.g. summer storms), in a future climate. It is also able to provide information on the underlying changes in frequency and intensity of rainfall on hourly timescales.

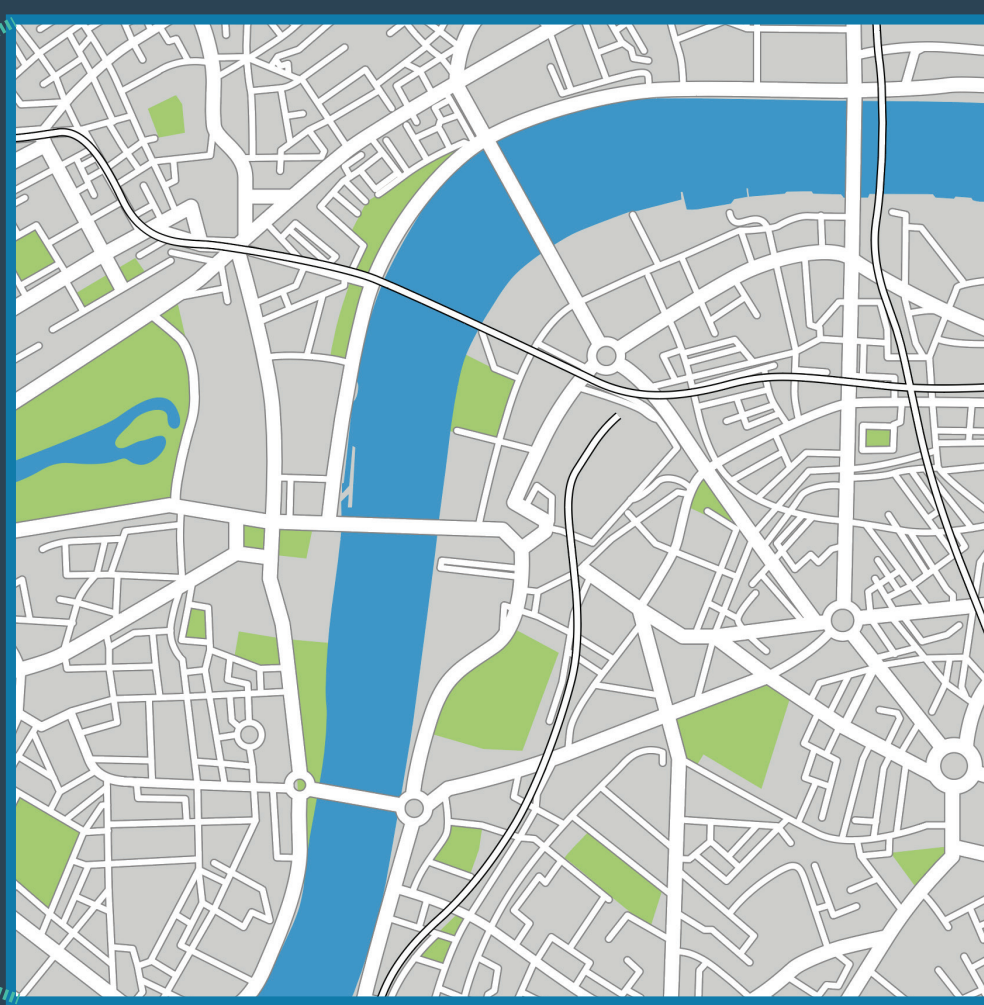


Climate model resolution

London area covered by Regional 12km grid box



London area covered by Local 2.2km grid box



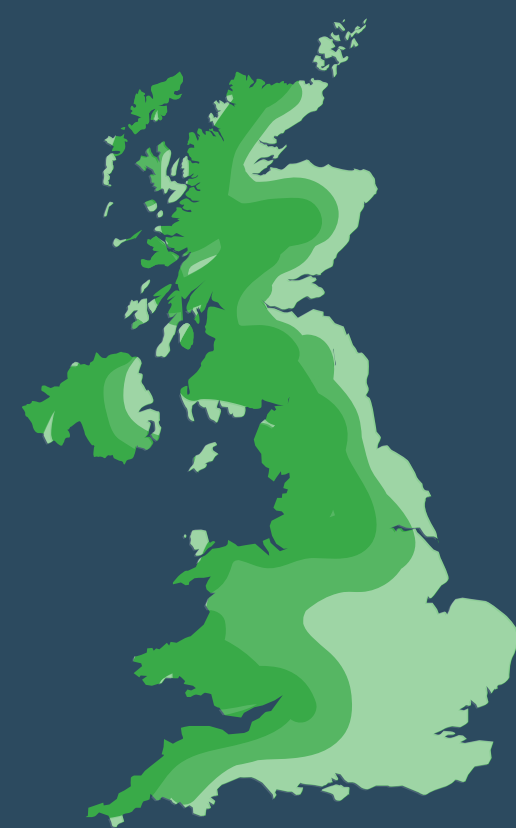
Specification of urban areas will be much more precise, giving a better representation of the urban heat island effect and surface water flooding.

NB Users should look wider than a 2.2km grid box, and consider projections from surrounding grid boxes.

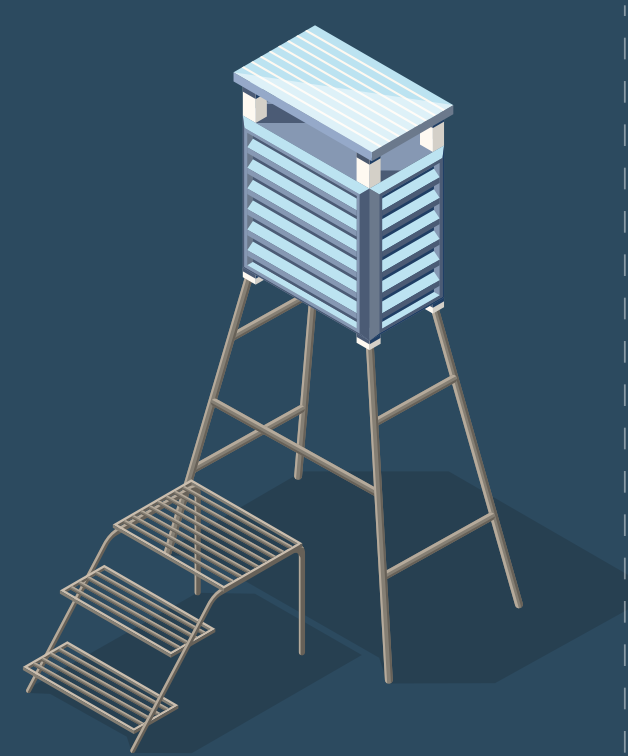
New advances in UKCP



State-of-the-art
global climate
models



Innovative
regional climate
models



Up to date
observational
data



Significant
user engagement



Locally relevant
climate information
to enhance resilience