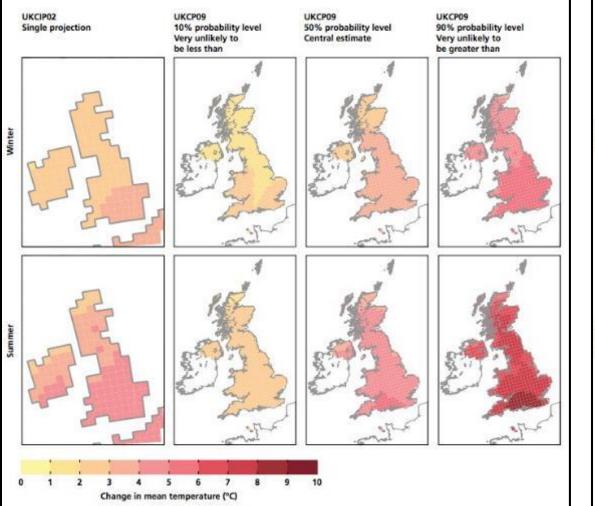
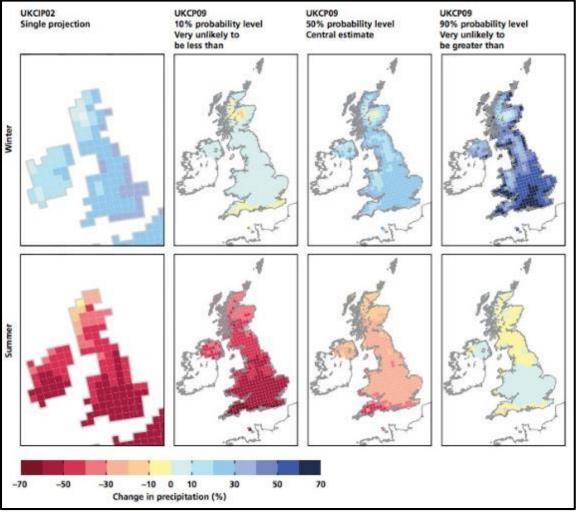
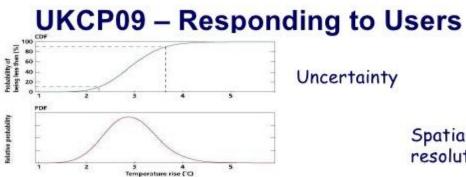
UKCP09 – Results





### UKCP09 – Results

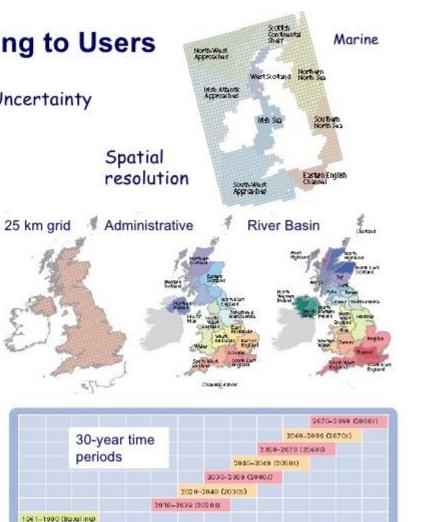


Variable	Unt	Change	Tempora Laveraging
Nean daily temperature	٦C	۰c	Nonth, season, year
fulean daily maximum temperature	°C	۰c	Blonth, seecon, year
Mean daily minimum temperatura	°C	°C	Blonth, season, year
99th percent le ot daily maximum temperature	°C	°C	Season
1st percent le of daily maximum temperature	~	~c	Season
90th percentile of daily minimum temperature	4¢	~	Season
1st percent le of daily minimum temperature	·<	·<	Season
Precipitation rate	mmillay	×	Month, search, year
With percent le of daily precipitation rate	mmilay	*6	Seaton
Specific humidity	9%9	ĸ	Blotth, season, year
Belative humidity	*	% (01 %)	Nonth, rescor, year
Total cloud	fraction -	16	Month season year
Net surface long waxe flux	YIIm?	Mara <sup>2</sup>	blonth, season, year
Net surfaces hort wave flux	Where?	Winnik	Nonth, season, year
Total downward short wave flux	Muu <sub>s</sub>	100mg	North season year
Newsy yes level pressure	hPa	hPa	Month season year

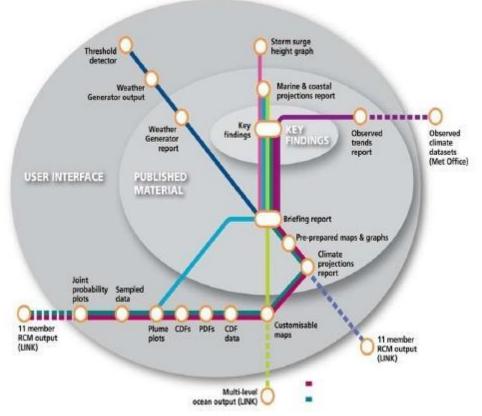
UK CLIMATE PROJECTIONS

http://ukcp09.defra.gov.uk

Temporal resolution



1960 1970 1980 1990 2000 2010 2020 2030 2040 2050 2060 2070 2080 2090



Probabilistic Climate Projections (Land) Probabilistic Climate Projections (Marine) Multi-level output

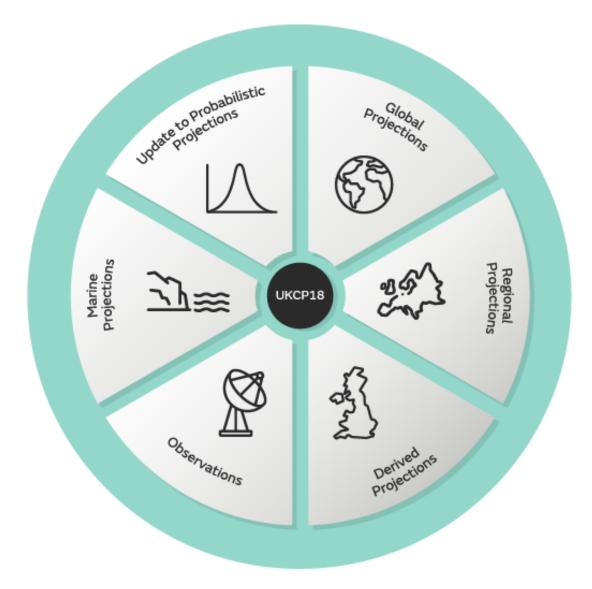
### UKCP18 – Launched on 26 Nov 2018

"Tackling climate change is not a binary process which requires us to champion the planet over national prosperity. Indeed market mechanisms, like reverse auctions for new clean energy capacity and the carbon price on electricity generation, have been hugely successful in delivering these cuts in emissions."

> Secretary of State Michael Gove Speech on UK Climate Change Projections

# UKCP18 – Features

- Observations (from late 1980s)
- Update to Probabilistic Projections
- Land Projections
- Marine Projections
- Global Projections (60km)
- Regional Projections (12km)
- Data avaiable
  - Derived Projections
  - Temperature
  - Precipitation
  - Sea level rise and storm surge
  - Weather types
  - Wind

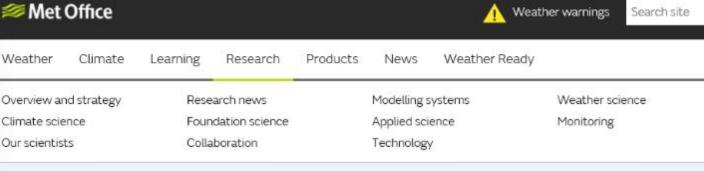


#### Met Office

Research / Collaboration / Ukcp

**UK Climate Projections** 

### UKCP18 – Features Overview and strategy



	ONS			
Home	Using Climate Projections	Maps & key findings	Reports & guidance	Case studies

From 31 December 2018, the UKCP09 service will permanently close. From this date, the UKCP09 website will be available in archived format only. There will be no further updates to material on the UKCP09 website and no further access to the UKCP09 helpdesk, User Interface or search function. Underlying UKCP09 data will still be available from the CEDA catalogue. For more information on these changes, see here.

For the new climate projections released in 2018, please visit the UKCP18 website here from Monday 26 November 2018.

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### Use UKCPO climate ris

UK Climate Projections User Interface



provides the most up-to-date assessment of how the ige over the 21st century. Find information to help with sessments and adaptation plans.

climate analysis tool that forms part of the Met Office Hadley ch is supported by the Department of Business, Energy and e Department for Environment, Food and Rural Affairs (Defra).

Monday

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Product	UKCP09	UKCP18
	5km 25km in rotated pole grid* to match probabilistic projections Administrative regions and river basins	5km 25km in Ordnance Survey's British National Grid+ to match probabilistic projections <b>Countries</b> , administrative regions and river basins 12km and 60km in in Ordnance Survey's British National Grid+ to match global and regional
T the Northern	Daily, monthly, long-term averages No daily precipitation	projections Daily, monthly, long-term averages Daily precipitation

ble of Man

Product	UKCP09	UKCP18	
Probabilistic Projections	25km in rotated pole grid* Administrative regions and river basins	25km in Ordnance Survey's British National Grid+ <b>Countries</b> , administrative regions and river basins	
CLIMATE PROJECTIONS River basin regions Ordney and Shelland	Monthly, seasonal, annual	Same	
	30-year averages	30-year averages and monthly time series	
	SRESB2 (low) SRESA1B (medium) SRESA1FI (high)	SRESA1B RCP2.6, RCP4.5, RCP6.0, RCP8.5	
North Hightune Argyle Argyle Toy Toy Toy	10,000 samples	3,000 samples	
Orboxy and Shritand Westing Highting Argyli Forth Kostiand Forth East Sociand	SRESA1FI (high)	· · ·	

Product	UKCP09	UKCP18	
Spatially coherent climate model data	25km in rotated pole grid* Daily time series	60km global projections (daily+) 12km regional projections over Europe (daily+) 2.2km regional projections over UK (subdaily+)	
Spatially coherent projections	25km in rotated pole grid* 30-year averages	<ul> <li>No longer available. Replaced by spatially coherent</li> <li>60km global projections</li> <li>12km regional projections over Europe</li> <li>2.2km regional projections over UK</li> <li>60km derived projections over UK</li> </ul>	
Weather generator	Daily and hourly	<ul> <li>No longer available. Replaced by</li> <li>Daily data from global and regional models</li> <li>Sub-daily data from 2.2km regional projections</li> </ul>	

Product	UKCP09	UKCP18	
Marine Projections	Time-mean sea level to 2100	Time-mean sea level to 2100 Exploratory time- mean sea level to 2300	
	H++	Not updated but are still valid	
	Storm-surge trend	Best estimate is for zero storm-surge trend, see Extreme still water return levels	
		Case studies	



### UKCP18 - Dataset Examples (Sea level rise and storm surge)

Dataset	Description	<b>Emission Scenarios</b>	Time Period	Domain
Time mean sea Level (12km)	Projections of future changes in sea water level	RCP2.6 RCP4.5 RCP8.5	2007-2100	UK Coastline
Storm surge trend (12km)	Projections of storm surge trend excluding mean sea level changes	RCP8.5	2007-2100	UK Coastline
Strom surge simulations	Time series of gridded historical and future simulations of sea level excluding mean sea level changes	RCP8.5	1970-2099	UK
Short event case studies	Time series of gridded historical and future simulations of sea level for 3 events	N/A	6 Dec 2013 3 Feb 2014 11 Jan 2015	UK
Time mean sea level (12km)	Exploratory projections of future changes in sea level	RCP2.6 RCP4.5 RCP8.5	2007-2300	UK
Projected future still water return level	Projected future still water levels at tide gauges	RCP2.6 RCP4.5 RCP8.5	2007-2300	UK tide gauges