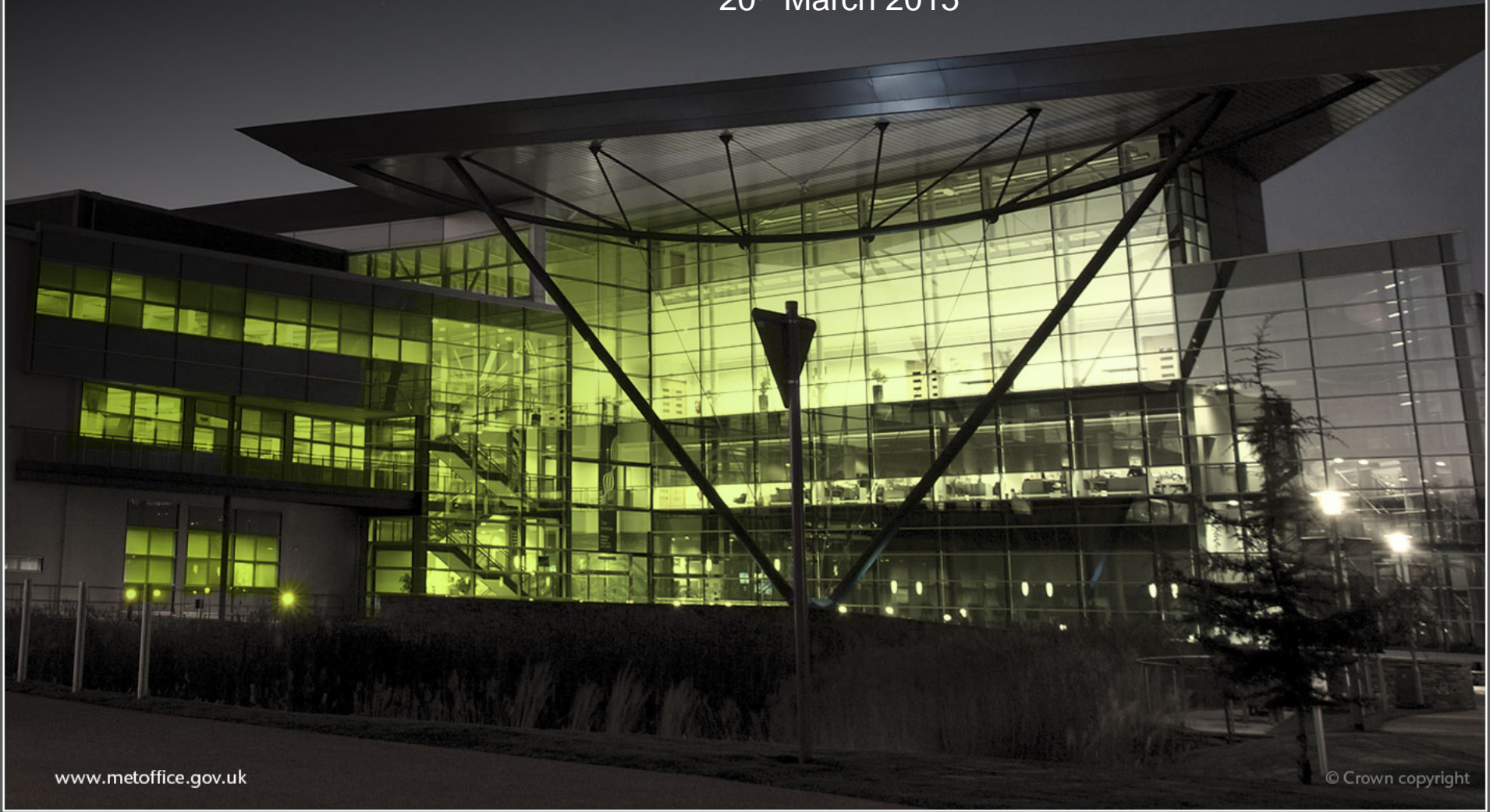




Using Weather Forecasts

Helping You Plan Grounds Maintenance Activities

20th March 2015





The Met Office

Who we are

- Founded in 1854 – UK's national weather service
- Head office in Exeter with 1,800 staff at 60 locations worldwide
- Trading fund within the department for Business Innovation and Skills

We provide the following services with a global capability : -

- Public Weather Service (PWS) & NSWWS
- Commercial forecasts
- Aviation forecasting
- Defence forecasting
- Flood forecasting
- Climate science and consultancy

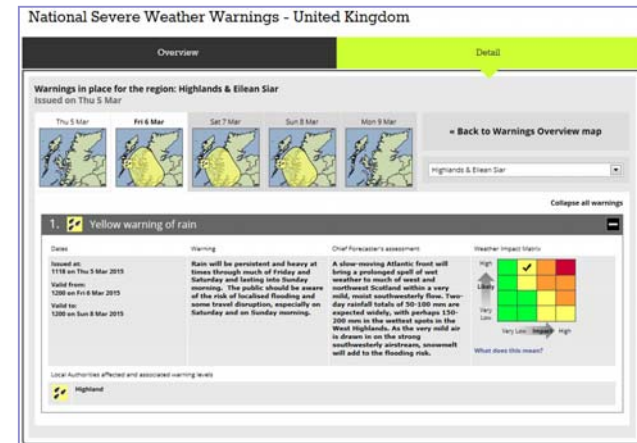


Helping to time maintenance and gardening tasks

Free services



Web



National Severe Weather Warnings



Television & radio



Met Office

Helping to time maintenance and gardening tasks

Bespoke services - MORECS

- Generic name for the Met Office service involving the routine calculation of soil moisture and evaporation in the UK & Northern Ireland
- Data is output on a 40x40km grid. It is run on a weekly and monthly basis. Daily values can also be produced during the weekly run.
- Outputs (dependent on land use and soil type) include Potential Evapotranspiration, Actual Evapotranspiration, Hydrological Effective Rainfall (HER) and Soil Moisture Deficit (SMD).
- Contact salesteam@metoffice.gov.uk for more information on availability and costs



Helping to time maintenance and gardening tasks

Bespoke services – back-data

- Air, ground & depth temperatures
- Precipitation
- Wind (mean speed, max gust and direction)
- Sunshine totals
- Data can be supplied as a one-off package, or as ongoing monthly reports – hourly, daily, monthly figures available depending on weather station.
- Contact salesteam@metoffice.gov.uk for more information on availability and costs

Helping to time maintenance and gardening tasks

Bespoke services – OpenSite

- Winter hazards (inc. frost, ice, snow & heavy rain)
- Summer (inc. rainfall and high air temperatures)

Met Office		OpenSite																							
24 Hour Forecast for Customer Name																									
Valid 12:00 GMT 15th January 2014 to 12:00 GMT 16th January 2014																									
Location		Name of Location(s) covered by this forecast point																							
Colour State																									
Time (GMT)		1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Minimum RST		6.5	6.2	6.0	5.8	5.2	4.7	4.2	4.5	3.8	3.3	3.0	2.3	2.0	1.5	2.4	2.1	1.8	1.4	1.0	1.6	2.1	3.3	3.8	5.0
Road State		Dry	Dry	Dry	Dry	Dry	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Damp	Dry	Dry
Rainfall		0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.0	0.0	
Falling Snow		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Location		Name of Location(s) covered by this forecast point																							
Colour State																									
Time (GMT)		1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100
Minimum RST		6.8	6.6	6.1	5.8	5.4	4.8	3.9	3.3	2.1	1.8	0.9	0.4	-1.1	-1.4	-0.9	-0.5	0.0	0.0	-0.8	-1.1	-0.5	0.5	1.9	3.5
Road State		Dry	Dry	Dry	Dry	Dry	Dry	Rain	Rain	Wet	Damp	Damp	Frost	Frost	Frost	Frost	Snow	Snow	Icy	Icy	Icy	Damp	Damp	Dry	
Rainfall		0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	
Falling Snow		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.8	1.1	0.1	0	0	0	0	
Red		Frost, ice and/or snow are forecast to occur.																							
Orange		Road Surface Temperatures (RSTs) are forecast to be $\leq -5.0\text{C}$ or below (including DRY roads below 0.0C), there is still a risk of Frost, ice or snow. See the detail of the forecast for more information.																							
Yellow		RSTs are forecast to be between -0.5C and $+1.5\text{C}$ - there is a lower risk of frost, ice or snow. See the detail of the forecast for more information.																							
Green		RSTs are forecast to be $\geq 2\text{C}$ or higher.																							
OpenRoad Forecaster:		Transmitted by the Met Office on 23 September 2014 at 09:13 (C) Crown Copyright 2014. All Rights Reserved																							
Minimum RST		- refers to the road surface temperature and is given in degrees Celsius.																							
Falling snow		is given in cm and is an indication of how much may fall, not how much may settle.																							
Rainfall		is given in mm and is an indication of how much rain is expected to fall during that hour.																							
Min temp, falling snow and/or road state		are the worst conditions expected for each of these forecast elements within the period.																							
Where residual snow / ice remains on the road surface from a previous day, the shown colour state should be overridden and treated as RED																									

- Contact openroad@metoffice.gov.uk for more information on availability and costs



The Queen Elizabeth Olympic Park

(The Landscape Group Ltd)

Winter forecast service

Rainfall, road surface temperature, frost, ice & snow

Summer forecast service

Rainfall and air temperature

Year-round data service

24 hour rainfall total, daily
max and min air temps
supplied in monthly batches



Ensuring the safety of park users

Winter hazards – frost, ice, snow

Flooding

Strong winds / tree damage





Met Office

Long-term links between weather, plants and habitats

What is the difference between “climate” and “weather” ?

Climate - average weather and its variability over a period of time, ranging from months to millions of years. The World Meteorological Organization standard is a 30-year average.

Weather – what we experience on a day to day basis. No two days / months / years are the same.

April 2011 – warm - one of the driest on record

April 2012 – cold - one of the wettest on record



Met Office

Long-term links between weather, plants and habitats

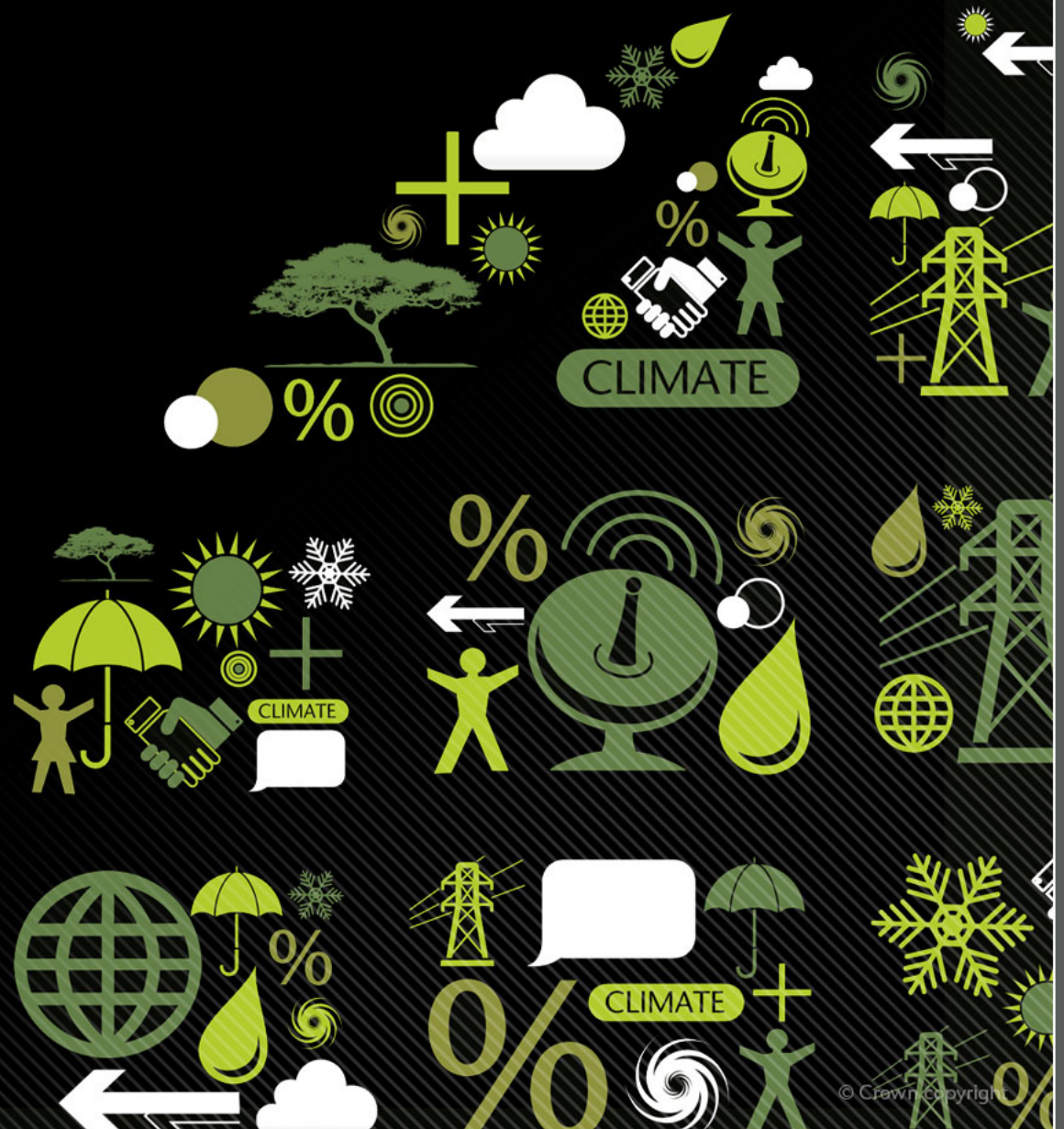
Climate change

- Mixture of natural and man-made causes – complex interactions between them
- More extreme weather
- Potentially drier, warmer summers, but the extra heat could produce more intense thunderstorms.
- Warmer, wetter winters (but does **not** mean the end of snow) ! Winter storms not necessarily more frequent but could be more intense.
- See www.metoffice.gov.uk/climate-guide/climate-change for more details



Met Office

Discussion & questions





Met Office

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