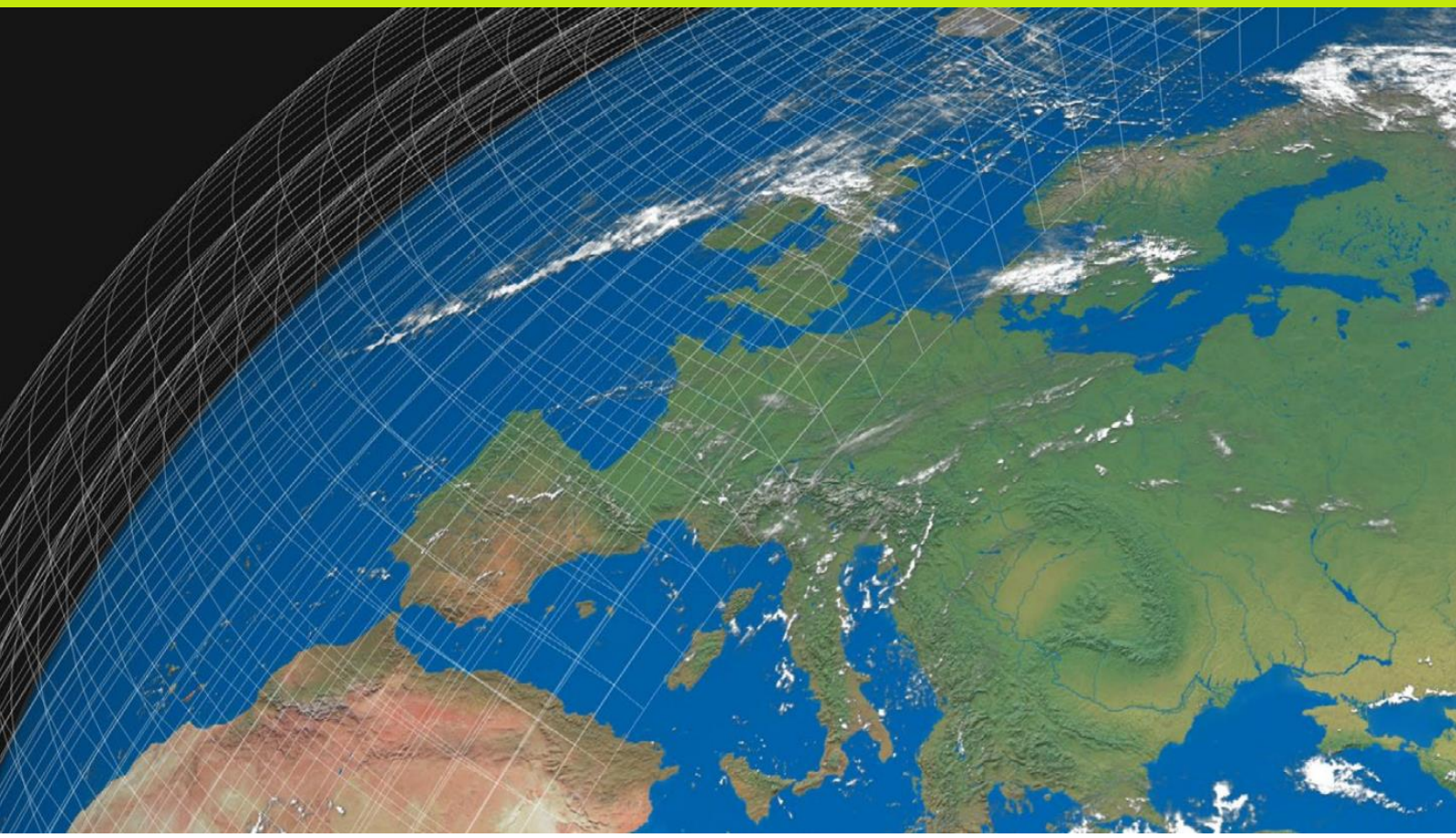
Met Office

Global Spot Weather Forecasts



INTRODUCTION

We've developed Global Spot Weather Forecasts to help you excel in identifying weather impacts on your business and use this actionable intelligence to plan effectively and enhance your results.

This product includes forecast data for the next 14 days and all available archived forecast data, available in hourly, three-hourly and daily timesteps. Global Spot offers site-specific forecasts for over 5,000 locations worldwide (not including UK sites), including airports, major landmarks, and beaches.

Global Spot provides forecasts for specific locations for all available forecast ranges.

By incorporating the latest observations, correcting the data to account for orography and coastal proximity, and combining all the available data from the different model configurations and runs, it provides a consistent, "most likely" forecast for over 5,000 sites globally.

Weather Parameters

Parameter	Unit	Hourly [1]	Sub-daily [1]	Daily
Temperatures etc				
Temperature	°C	Hourly to T+360	Three-hourly to T+360	-
'Feels Like' Temperature	°C	Hourly to T+360	Three-hourly to T+360	Max / Min to Day 15
Max/Min Temperature[7]	°C	Hourly to T+48	Three-hourly to T+168	Max / Min[2] to Day 15
Feels Like T Range	°C	Hourly to T+360	-	-
Surface Temperature	°C	Hourly to T+360	-	-
Temperature Range	°C	-	-	Max / Min Upper / Lower Bounds to Day 15
Feels Like T Range	°C	-	-	Max / Min Upper / Lower Bounds to Day 15
Dry Bulb Freezing Level	m AMSL	Hourly to T+360	-	-
Wet Bulb Freezing Level	m AMSL	Hourly to T+360	-	-
Relative Humidity	%	Hourly to T+360	Three-hourly to T+360	Local Midday / Midnight to Day 15
Mean Sea Level Pressure	Pa	Hourly to T+360	Three-hourly to T+360	Local Midday / Midnight to Day 15
Wind				
Wind Speed	m/s	Hourly to T+360	Three-hourly to T+360	Local Midday / Midnight to Day 15
Wind Direction	deg	Hourly to T+360	Three-hourly to T+360	Local Midday / Midnight to Day 15
Wind Gust	m/s	Hourly to T+360	Three-hourly to T+360	Local Midday / Midnight to Day 15
Max Wind Gust[7]	m/s	Hourly to T+48	Three-hourly to T+168	-
Precipitation				
Precipitation Amount[7]	mm	Hourly to T+48	Three-hourly to T+168	-
Precipitation Rate	mm/hr	Hourly to T+360	-	-
Snow				
Snow Amount[7][8]	mm (rain equiv)	Hourly to T+48	Three-hourly to T+168	-
Snow Depth[9]	mm (water equiv)	Hourly to T+360	-	-
Solar				
UV Index	0 to 13[5]	Hourly to T+360	Three-hourly to T+360	Max to Day 15
Sunshine Duration[7]	s	Hourly to T+48	Three-hourly to T+360	Daily to Day 15
Instantaneous Direct Downward SW radiation	W/m2	Hourly to T+360[6]	-	-
Instantaneous Direct Downward SW radiation	kJ/m2	Hourly to T+360[6]	-	-
Instantaneous Diffuse Downward SW radiation	W/m2	Hourly to T+360[6]	-	-
Integrated Diffuse Downward SW radiation	kJ/m2	Hourly to T+360[6]	-	-
Instantaneous SW is the power (per unit area); integrated SW is the energy (per unit area) over the previous hour, commonly expressed as kWh (1kWh = 3600kJ)				
Cloud				
Cloud Amount < 200feet	oktas	Hourly to T+360	-	-
Low cloud amount	oktas	Hourly to T+360	-	-
Medium cloud amount	oktas	Hourly to T+360	-	-
High cloud amount	oktas	Hourly to T+360	-	-
Total cloud amount	oktas	Hourly to T+360	-	-
Visibility	m	Hourly to T+360	Three-hourly to T+360	Local Midday / Midnight to Day 15
Probabilistics				
Probability of Precipitation	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Snow	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Heavy Snow	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Rain	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Heavy Rain	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Hail	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Lightning	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Mist	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15

Probability of Fog	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of Sun / Clear Skies	%	Hourly to T+360	Three-hourly to T+360	Daytime / Nighttime to Day 15
Probability of LVP[10]	%	-	Three-hourly to T+360	Daytime / Nighttime to Day 15
Other				
Weather Code (see below)	0 to 30	Hourly to T+360[3]	Three-hourly to T+360[4]	Daytime / Nighttime[2][4] to Day 15
Day / Night Indicator	0/1	Hourly to T+360	Three-hourly to T+360	-

(1) End of forecast range is approximate.

(2) Daytime defined as forecast times that fall between local dawn and dusk. Vice versa for night-time. This rule is applied for (day) max/(night) min temps and day/night symbols.

(3) Each hourly symbol is nominally the weather at each time, but considers both instantaneous (e.g. cloud amount) and period (e.g. max rain rate over the last hour). For Weather Code a code breakdown is available, and you can ask your Met Office Account Manager for this.

(4) Both three-hourly and day/night weather symbols combine the hourly weather symbols that fall within the relevant period. For the three-hourly symbol valid at T, this is the hourly symbols valid at T-1, T, T+1. For day symbols this is all the hourly symbols that fall between local dawn and dusk unless in-day in which case only those hourly symbols in the remaining portion of the day are considered. Likewise for night symbols, but obviously dusk to dawn.

(5) Higher values are possible in extreme situations.

(6) Both instantaneous and integrated over previous hour output.

(7) Over the preceding hour/three/six hours.

(8) This is the falling snow amount in mm of liquid equivalent. Doesn't reflect snow lying on the ground. Falling snow may not settle at all and may be accompanied by rain, i.e. is sleet.

(9) This is the lying snow amount in mm of liquid equivalent, approximates to snow depth in cm.

(10) LVP - Low Visibility Procedures are operated at visibilities < 1500m and/or 3 Oktas of cloud below 200ft above ground level