



Provider

Exceptional data services to meet all your weather and climate needs

The Met Office has a comprehensive range of products and services all designed to ensure your business functions more efficiently.

If you have a more specific request, not covered by these products, our team of experts are on hand to discuss your requirements.

ASSESSING PERFORMANCE AND RESOLVING ISSUES

Storm analysis

A tailored report, created for severe weather events using a range of weather parameters and timescales.

The report contains observations in map in tabular form for a defined geographical area and is used to analyse correlations between weather events and their effects on claims or operations.

Wind frequency analysis

A monthly table using a 10 year period detailing the frequency wind recorded in a particular direction (in degrees).

This data is represented as a percentage as well as in hours. Total hours and percents for the entire period from each direction are included.

Wind rose

A graphical representation of the direction and speed for the wind broken down by month, typically over a 10 year period.

Annual or monthly graphical representation showing the relationship between the frequency and speed of wind from compass point directions.

By showing you the prevailing wind at each site, the wind rose shows how often problems with crosswinds are likely to occur, on average. Gust maps and maximum gust analysis are also available.

Claimcheck

Claimcheck is a new product designed to help insurers deal with claims resulting from severe weather conditions.

Claimcheck uses over 10 million observations from satellites, rainfall radar and aircraft to give details at an in-depth local level, at a resolution of 2km across the whole of the UK, mapped to individual postcode sectors.

Updated hourly, 365 days a year, Claimcheck provides an unrivalled level of accuracy in its reporting.

For further information about our services please call us on **0870 900 0100**

Climate summary

Using information from the Met Office archived climatological data, monthly averages and extremes at a specific station, usually over 10 days are produced.

The annual summary presents a total or mean (as appropriate) of each element, including date and time of month of the highest daily maximum, the lowest daily minimum, and the highest daily rainfall amount.

PROJECT PLANNING

Tower crane forecasts

The effects of the wind on a crane structure can be considerable and should never be underestimated.

The Tower crane forecast is an essential safety requirement of particular importance for cranes with a higher tower or a long jib, or for cranes with a basic jib length when it is working in an unsheltered area.

The site-specific forecast provides you with the mean and gust wind speeds at required heights and wind direction for the next five days.

This enables you to identify weather windows to plan lifts with confidence.

It will help to provide the best possible health and safety for staff while lifting.

Six day forecast

A site-specific forecast service of rain, temperature and wind for a six day period.

The forecast is easy to use and will save you time and money.

It can also help you identify opportunities or threats in the weather that will impact on your business.

Climate estimate

These estimates are interpolated from values on a regular grid derived from station observations.

Where relevant and possible the effects of altitude, urban areas and proximity to the coast are taken into account. The estimate are based over a 30 year period, broken down into months detailing all available elements.

Risk based forecast

Risk-based forecast can help you to manage resources, improve health and safety and plan operations in advance of weather events.

These forecasts also provide uncertainty thresholds to enable swift and confident decision-making.

This daily forecast provides a risk assessment on the probability of heavy rain, high winds, freezing temperatures and thaw out to six days across eight UK regions.

Ten day forecast

A general purpose forecast out to ten days for any region of the UK, enabling you to plan operations and resources as well as managing stock, distribution and supply chains.

Available in three versions (standard, enhanced and bespoke) it offers forecasts for parameters including maximum temperatures, sunshine hours, rainfall with an option to add wind.

It is also possible to specify sites, add historical averages for the region, or weather commentary from expert forecasters if required. Whatever your needs it can be customised to meet your specific requirements.



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RELIABLE PROJECT DELIVERY

Build warning services

Our build warning forecast services are used for the health and safety of staff on-site and to aid planning decisions for weather sensitive operations such as freezing temperatures and rain in the concrete pouring process.

The service incorporates a range of weather parameters, including low and high temperatures, wind speed, lightning, snow and heavy rainfall, which highlight unsafe conditions to carry out work or when and where delays may occur.

Monthly Outlook

A weather planning tool providing advice out to 30 days ahead for ten regions of the UK. The forecast presents a range of weather parameters in text format or as a combination of maps and tables.

This enables you to:

- Increase profitability via improved demand/sales forecasting.
- Maintain your competitive advantage by optimising supply levels.
- Reduce costs through more effective scheduling of maintenance activities.
- Allocate staff resources efficiently.
- Tactically coordinate weather sensitive events.

NEC planning averages

The averages report provides a tool to identify potential downtime that you can expect during a contract period. This enables you to develop contingency plans and project managers to negotiate realistic contracts.

The report provides the monthly long-term average figures based on observational data collected over a 30 year period. It also includes the one-in-ten year values identifying set thresholds for planning purposes.

Elements contained within the standard report include monthly rainfall totals, days with more than 5mm of rain, days with air frost and days with snow lying. Wind data can also be added if required.

Degree days

Degree day reports measure and report on variations in outside temperatures. They are available for 18 regions across the UK, compiled monthly and are normally published within five working days of the end of the month.

They can be used by designers to:

- Relate a building's energy consumption to the weather.
- Monitor energy saving measures and to plan and use buildings more effectively.
- Plan heating systems for buildings

Downtime summaries

This report highlights the elements which exceed an operational threshold, and for how long. The data provided can then be compared against long-term averages to form a trusted baseline for comparison.

This enables you to monitor the progress and efficiency of site operations, negotiate contract extensions or variations and settle contract disputes.

The elements contained within the report include temperature, humidity, rainfall, snow and wind.

NEC monthly summaries

This summary addresses the New Engineering Contract requirement which specifies that claims can only be considered when the weather has been "exceptionally severe" – worse than might be expected one year out of ten, taken over a thirty year average.

The reports enable you to compare figures for the month in question against the one in ten-year average for the same period. The report enables companies to settle NEC contract claims quickly and efficiently.



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General monthly summaries

This authoritative record of weather data helps you relate contract performance to climate conditions. You can then log critical weather events which impact project execution and relate site efficiency to the weather.

The elements contained within this report include: day maximum temperature, daily rainfall totals, daily mean wind speed, daily maximum gusts and sunshine hours.

MORECS

The Met Office Rainfall and Evaporation Calculation System (MORECS) is the only nationwide service giving real-time assessments of rainfall, evaporation and soil moisture.

MORECS provides a reliable assessment of general soil moisture status, divided into 40 km squares. Analysis covers different soil, crops and topography. All variations are taken into account for more reliable results.

Examples of MORECS:

- Design of more-reliable river-flow models.
- Predict actual flows.
- Predict evaporation losses from open water surfaces.
- Enable more-effective planning and assessment of drainage catchments.
- Model and understand risks of subsidence and droughts.

Talk to a forecaster

This service gives you direct telephone access to a weather forecaster – 24 hours a day.

You can ask for any weather information or forecast for an land area in the UK, as well as UK Waters and the Mediterranean and Canary Isles for the next few hours or for up to five days ahead.

We offer a number of post-project reports that will enable you to refine future procedures or settle contractual disputes.

Rainfall frequency analysis

An analysis of historic rainfall accumulation, duration and frequency for any location in the UK only.

This analysis, coupled with climate change impact projections can help to ensure that designs for drainage, sewers, flood prevention devices and similar structures are designed to withstand the impact of climate change and future extreme weather events.

ADMS

Atmospheric Dispersion Modelling system (ADMS) data is a set of meteorological parameters for direct input into a dispersion model.

It comprises observed data from key locations, or site-specific data from our forecast model.



If you would like further information about our services
please call us on **0870 900 0100**
or email **enquiries@metoffice.gov.uk**