

Met Office Weather DataHub: Atmospheric Model data update

Issue 3: November 2021

Essential upgrade complete

We contacted you last week to make you aware of an essential upgrade being applied to the [**Met Office Weather DataHub**](#) service infrastructure from 15 - 18 November 2021 that would result in some disruption to the service portal. To minimise disruption, we requested all users to refrain from interface activities during this period.

We can now confirm that this upgrade is now complete and that the Met Office Weather DataHub portal is ready full user use again.

As part of the upgrade, the Domain Name System (DNS) entries for Met Office Weather DataHub were modified to reference the new environment. No alterations have been made to domain names but the IP addresses will have changed. In certain situations these values are cached and whilst these will refresh in time, you may find that in specific cases you will need to clear your browser history to access the new gateway and portal. Any hard coded IP addresses will also need to be updated, though it is strongly recommended you use the DNS entry where possible due to this being a cloud based service. If you have any questions or concerns please feel free to [contact us](#) directly.

Met Office Weather DataHub is now officially LIVE!

As part of the ongoing development of [**Met Office Weather DataHub**](#) service, we have recently been successful in securing its full operational licence and as a result, the service has now officially transitioned from being in 'Beta' to being 'Live'.

What does moving from Beta to Live mean?

Met Office Weather DataHub has been in Beta – made clear by a banner throughout the service website and in all communications. Beta is a term widely used to refer to a prototype of a program or service considered ready for release but made available to a limited number of users for testing in a real-world environment.

During Beta, we have made numerous refinements and improvements to Met Office Weather DataHub based on user experience and feedback as well as continuing to evolve the service through new data and map overlays regularly being added. Transitioning from Beta to Live means that the service is now ready for general release.

Thank you for using the service and playing your part in helping us make this possible!

Met Office Ensemble data now available on Weather DataHub!

On 20 October, we made Met Office Global Ensemble Prediction System (MOGREPS-G) model data available on Met Office Weather DataHub. MOGREPS-G is a global ensemble that produces forecasts for the whole globe up to a week ahead at 20km resolution.

Data is available in 34 parameters for all 18 members in GRIB2 format. In a selectable format via our established API service, users are be able to subset by:

- Geographical region
- Parameter
- Time step
- Model run

MOGREPS-G benefits

Ensemble forecasts quantify uncertainties in weather prediction and estimate risks of particular weather events to enable the user to assess the risks more accurately. Instead of running just a single forecast, the computer model is run a number of times from slightly different starting conditions. The complete set of forecasts is referred to as the ensemble, and individual forecasts within it as ensemble members. You can find out more about [ensemble forecasting](#) on our website.

Summary of data now available on Met Office Weather DataHub

Met Office Weather DataHub – What's available?

Atmospheric Model data (available via API using GRIB2)

- Global 10km
- UK 2km
- Met Office Global Ensemble Prediction System (MOGREPS-G)

Site specific forecast (GeoJSON)

- Global daily spot data
- Global 3 hourly spot data
- Global hourly spot data

Please see the Met Office Weather DataHub for more information on [pricing](#) and [usage plans](#).

User insights



Since the launch of Atmospheric Model data in August 2020, there has been over:

- 775 orders
- 103,000 GB of data downloaded
- 47 million API requests - we are currently estimating that we will soon hit 7 million API requests per month

Recent customer feedback on user experience has been around the following themes:

- The service is a "welcome addition" to the Met Office range of data products
- The pricing structure is "clear"
- The API is easy to begin using
- The consistent approach applied across the different data sets "is excellent because it allows for a lot of code reuse"

One customer also shared with us their thoughts on the recent release of MOGREPS-G data on their experience of the service as a whole:

"MOGREPS-G is generally rated very highly in the meteorological community so having access to the raw grib data from it is a fantastic step forward"

"...it has been a very positive and enjoyable experience on the whole!"

We still need your feedback



Even though Met Office Weather DataHub is officially Live and out of the Beta phase, our development of the service is ongoing and we still want to hear your feedback. Your feedback during Beta is vital in shaping and ultimately ensuring our future service will meet your preferences and requirements.

Please send any feedback or suggestions you may have on how we might improve the Met Office Weather DataHub service to us via dpt@metoffice.gov.uk.

Ongoing support options

If you need support or have questions on the Met Office Weather DataHub service:

- Check our [FAQ's](#) area and see if your query is covered
- If not answered, please feel free to [contact us](#) directly
- For technical queries/ issues please raise a [support ticket](#)

For more information, please see our [support](#) page.

