

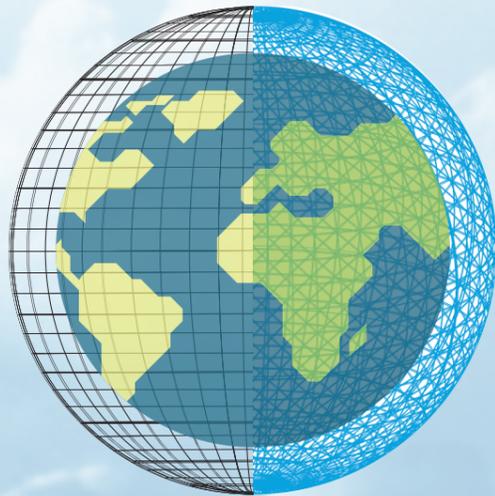
# Upgrading ECMWF's global weather forecast

**ECMWF**, which provides numerical weather predictions for Europe's meteorological services, has completed a milestone set of weather prediction upgrades to produce the highest-resolution ever global operational forecast.

## More global prediction points

Before

After

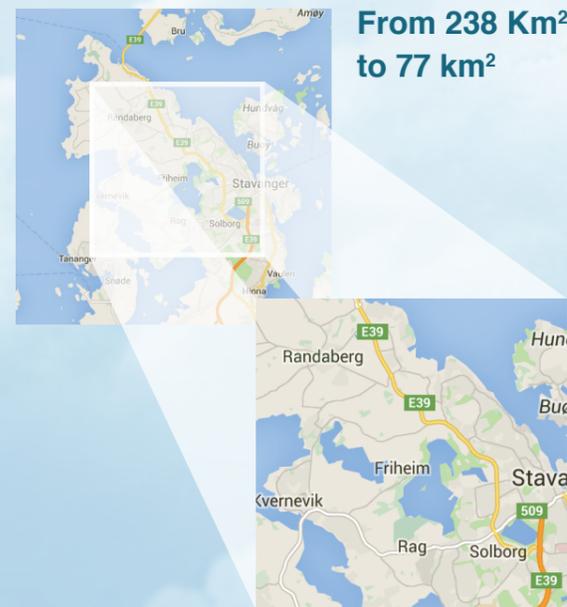


There will now be over **900 million** grid points spaced more evenly around the globe. This is **triple** the number there were previously.

## Greater forecast resolution

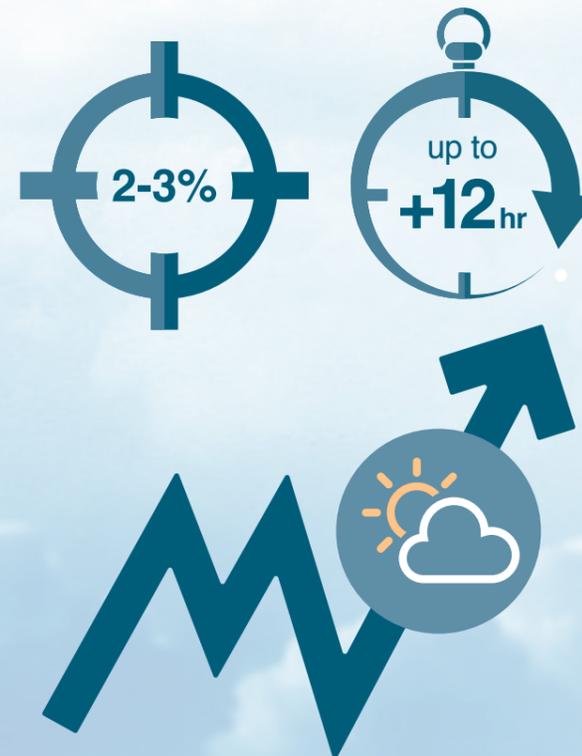
Before

After



Each square that makes up the global weather forecast is less than a **third** of the size it was before; meaning we can tell what the weather will be in much greater detail.

## Improved accuracy and extended range



Accuracy will improve by **2-3%** for many of the parameters that make up the forecast. This will extend predictive skill by up to **half a day**.

## A gateway to greater certainty and efficiency



The upgrades also improve efficiency. This **saves energy**, clearing the way for future forecasts to provide even greater detail, further into the future.