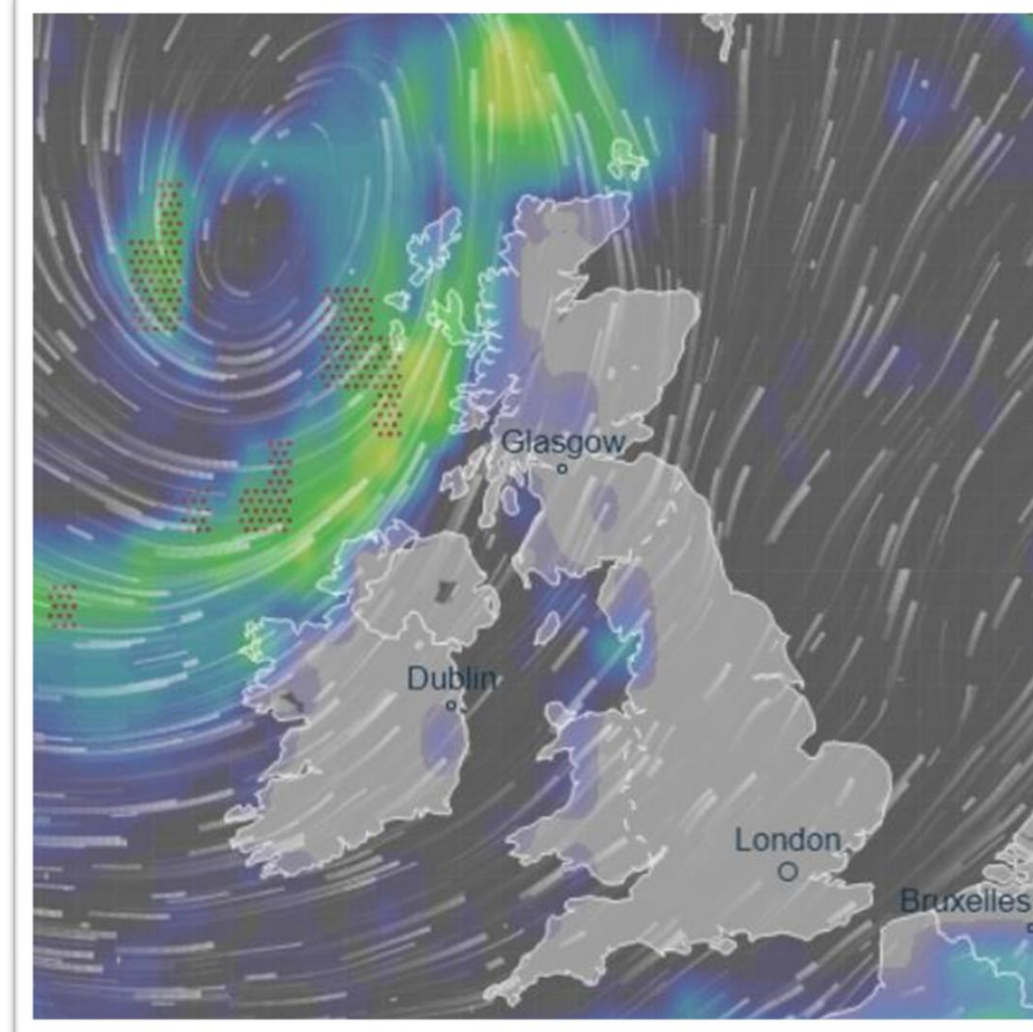


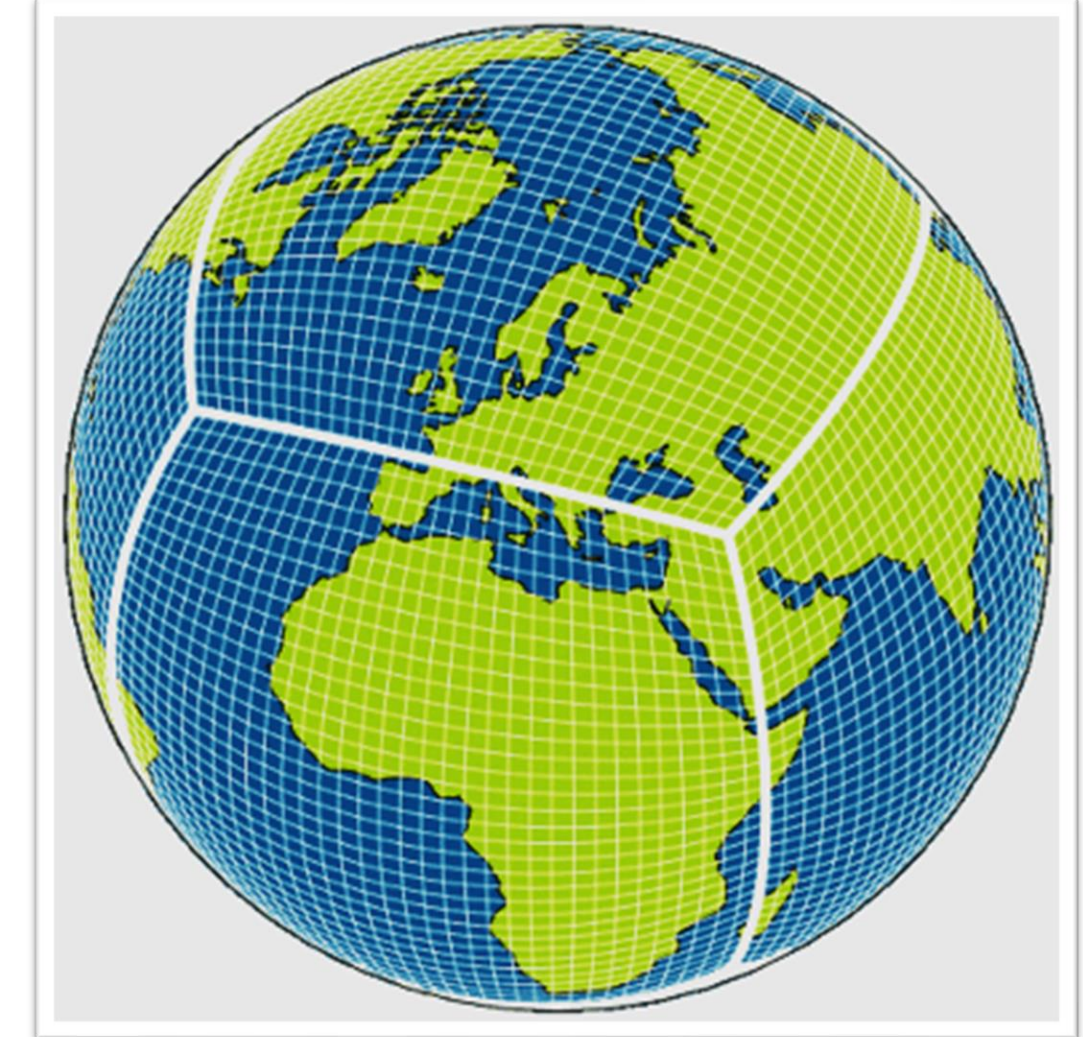
SCIENTIFIC CAREERS



SUPERCOMPUTING



FORECASTING



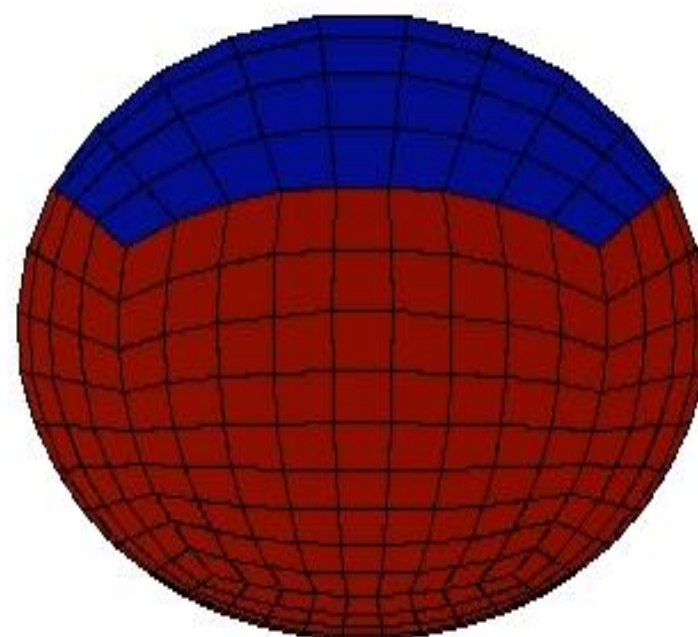
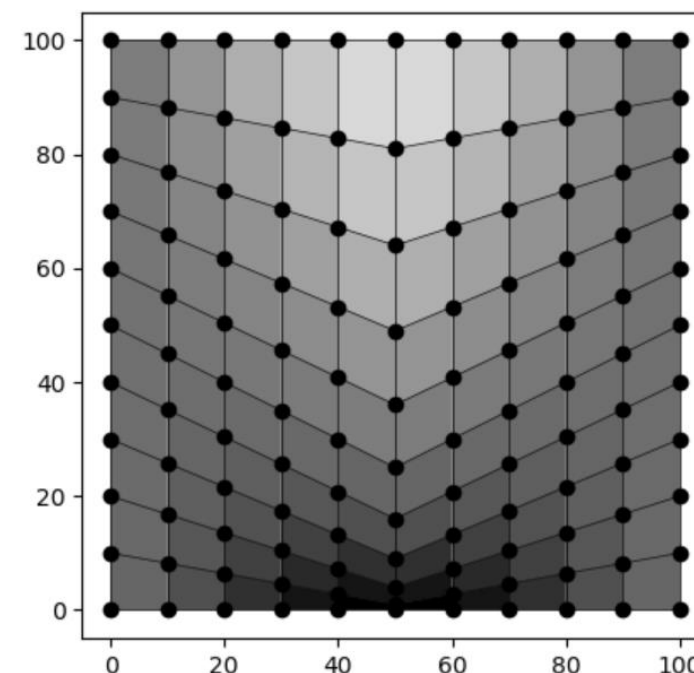
DYNAMIC MODELS

MY ROLE

Within the Dynamics team, I was working on LFRic, our next generation weather modelling system.

While working in Dynamics I...

- Aided development of a Limited Area Model covering the UK
- Created a number of **mesh tools** to help forecasters operate the weather model
- Creating **Python applets** to present the above concepts to new starters
- Undertook a **meteorology** course
- Got involved in the wider work community with Sports days, Random Coffees, and Socials



SKILLS DEVELOPED

I picked up a number of skills in my time at the Met Office, both scientific and work focused.

This included...

- **Linux** - a commonly used operating system for scientific computing
- **FORTRAN** - A programming language still used extensively in high speed computing, where processing time is important
- **HPC Work** - Working with a **High Powered Computer (HPC)** involved requesting computing time and planning schedules to run my tests
- **Presentation skills** - Relaying scientific information to new starters as best as possible

ABOUT MET OFFICE

“Right across the world, every single day, people make decisions based on the weather.”

We provide weather and climate forecasts to help with those decisions so people can be safe, well and prosperous.”

Founded in 1854 after the loss of a passenger vessel to a violent storm, the Met Office was built on saving lives via weather forecasting.

Over a century and a half later, this service now supplies a number of broadcasting companies, air traffic control, and the **Hadley Centre**, one of the foremost voices on **climate change**.

Simulating weather is an intensive process – requiring one of the most powerful supercomputers in the world to run the models. The next iteration, due in 2022, is expected to cost **£1.2 Billion**.

