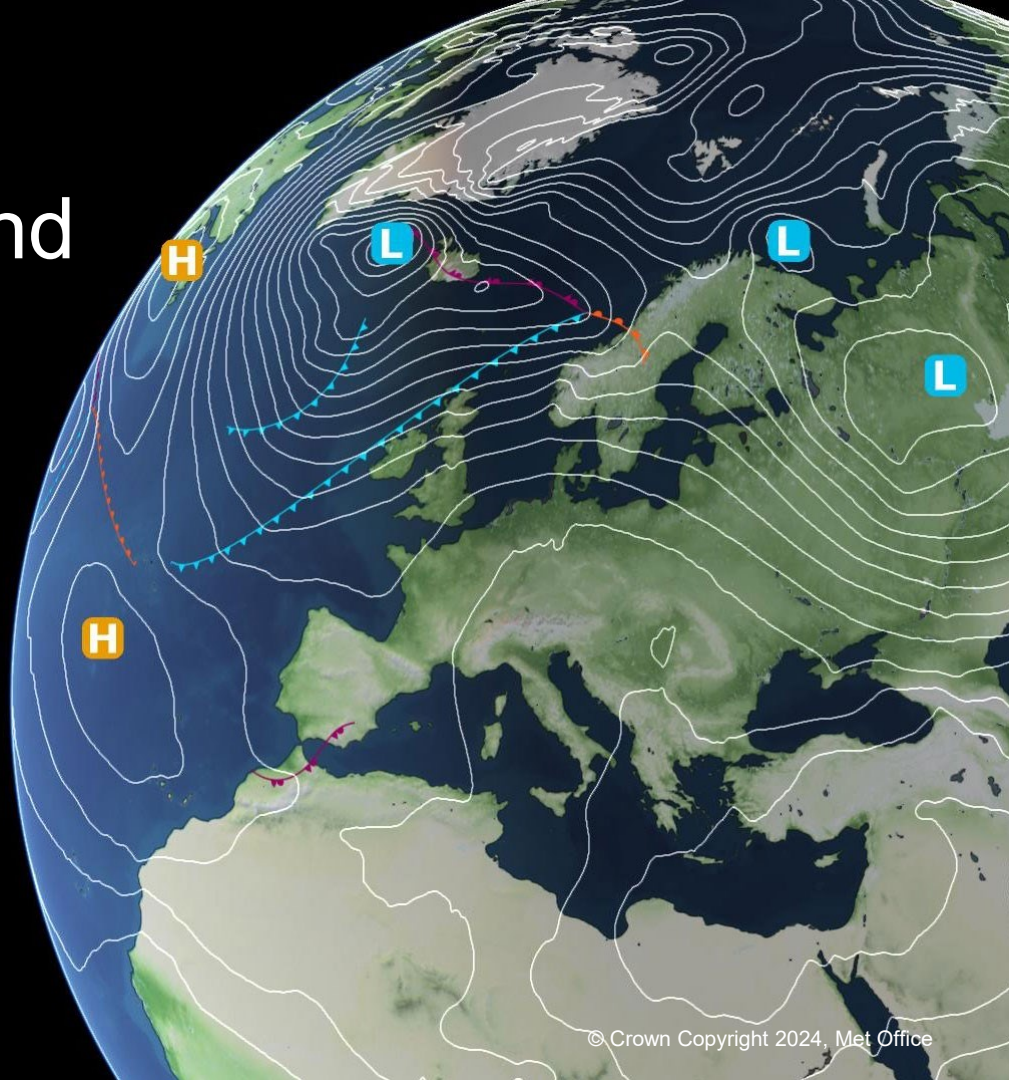


Integration of CSET and ESMValTool

Masters project proposal

James Frost

6th of November 2024



Problem

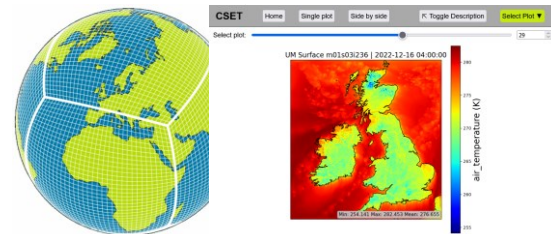
Numerical weather prediction (NWP) models need to be understood to improve.

There are different evaluation tools for weather (<14 days) and climate (30+ years) timescales.

We want to evaluate NWP models for both weather and climate.

The Met Office and its partners are currently developing **CSET**, a tool to evaluate research NWP.

We want to reuse existing tools, such as ESMValTool for climate evaluation.

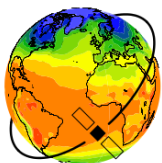




Solution

CSET will become the union of these two powerful tools, providing a single tool for research evaluation of weather models across timescales.

The project will be to design and implement running ESMValTool recipes as diagnostics in CSET.



ESMValTool
Earth System Model Evaluation Tool

U METplus = CSET