

UK ATMOSPHERIC MODELS

- Improved representation of cloud processes leading to precipitation

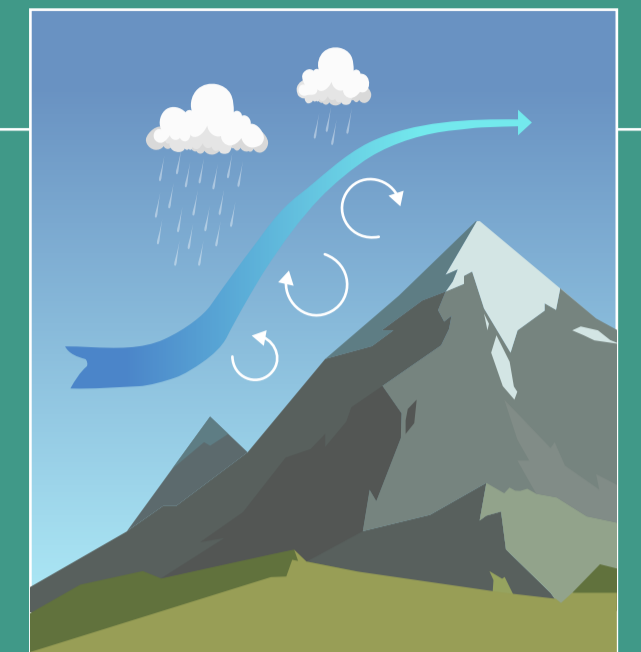
- ✓ Better forecasting of precipitation coverage and amounts



UK ATMOSPHERIC MODELS

- Better physical depiction of cloud processes
- Improved representation of the land surface

- ✓ More accurate forecasts of cloud amounts and base heights
- ✓ Better forecasts of temperatures in winter
- ✓ More accurate forecasting of near-surface winds



GLOBAL MODELS

- New global source of aircraft observations of winds and temperature



- ✓ More accurate initial conditions leading to significantly better forecasts
- ✓ Especially impactful in remote areas of the world

GLOBAL MODELS

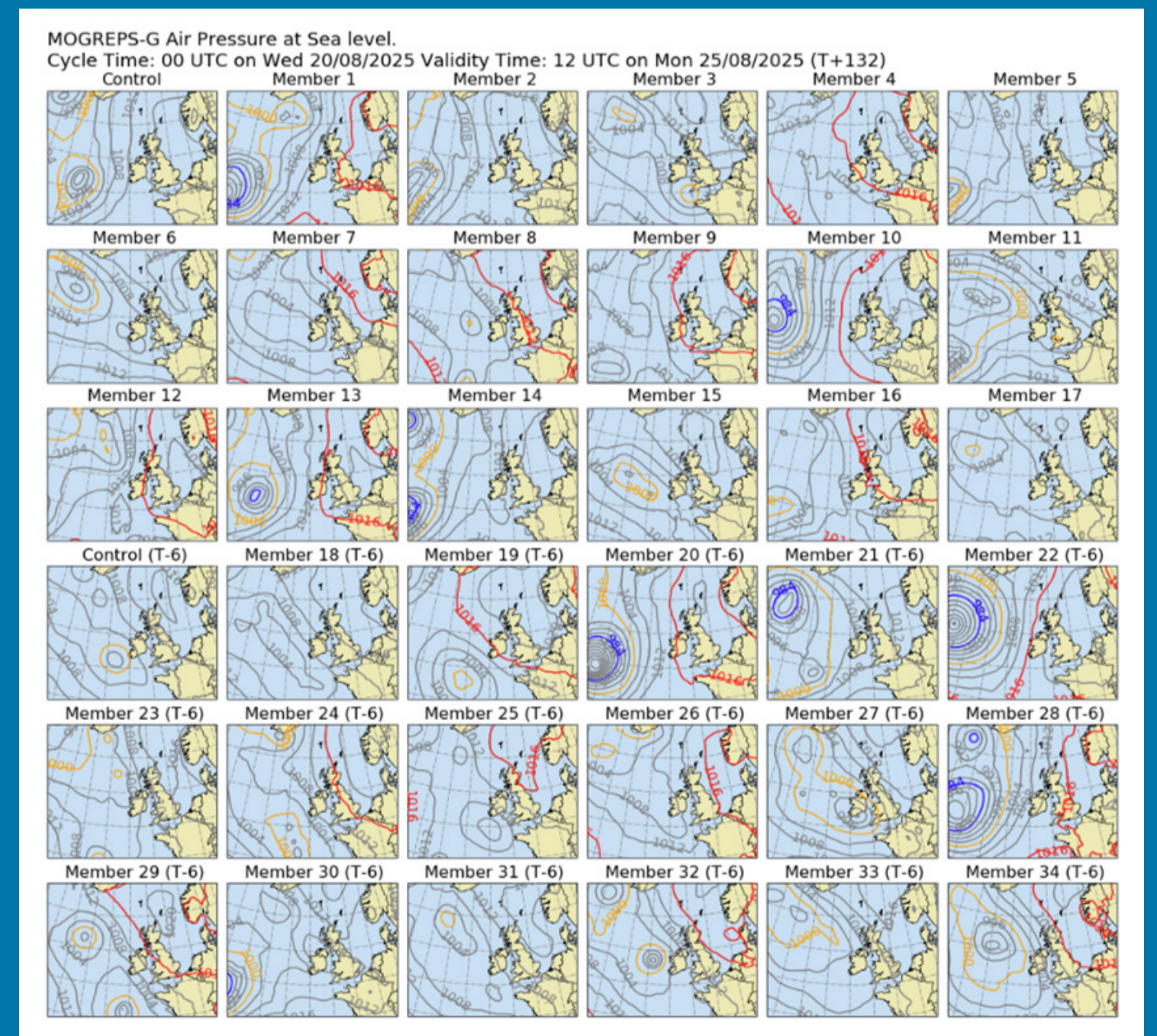
- Enhanced representation of convection
- Improved flow over orography



- ✓ Improved forecasting of large thunderstorms
- ✓ Better modelling of Tropical Cyclones leading to upgraded wind forecasts
- ✓ More accurate longer-range forecasts

GLOBAL MODELS

- Improved representation of model uncertainty



- ✓ More accurate information on forecast confidence

PROCESSING OF MODEL DATA

- Improved processing of model forecasts

- ✓ Improved local forecasts of winds and visibility at sites in and around the UK
- ✓ Provision of local forecasts extended to 14 days

