

## **Progress report on machine learning for convective nowcasting**

### ***Summary introduction***

This report provides a summary of the progress towards a new machine learning (ML) approach for generating a nowcast of convection over an extended London Terminal Manoeuvring Area (LTMA). The work presented gives an update from the previous progress report (Bartholomew, 2024), focussed on addressing the scaling issue identified in that previous work, and evaluating the newly trained model both in terms of objective verification over the test data set and subjective verification looking at case studies. In subjective evaluations, more attention is given to the model's ability to capture development stages of convective cell lifecycles.