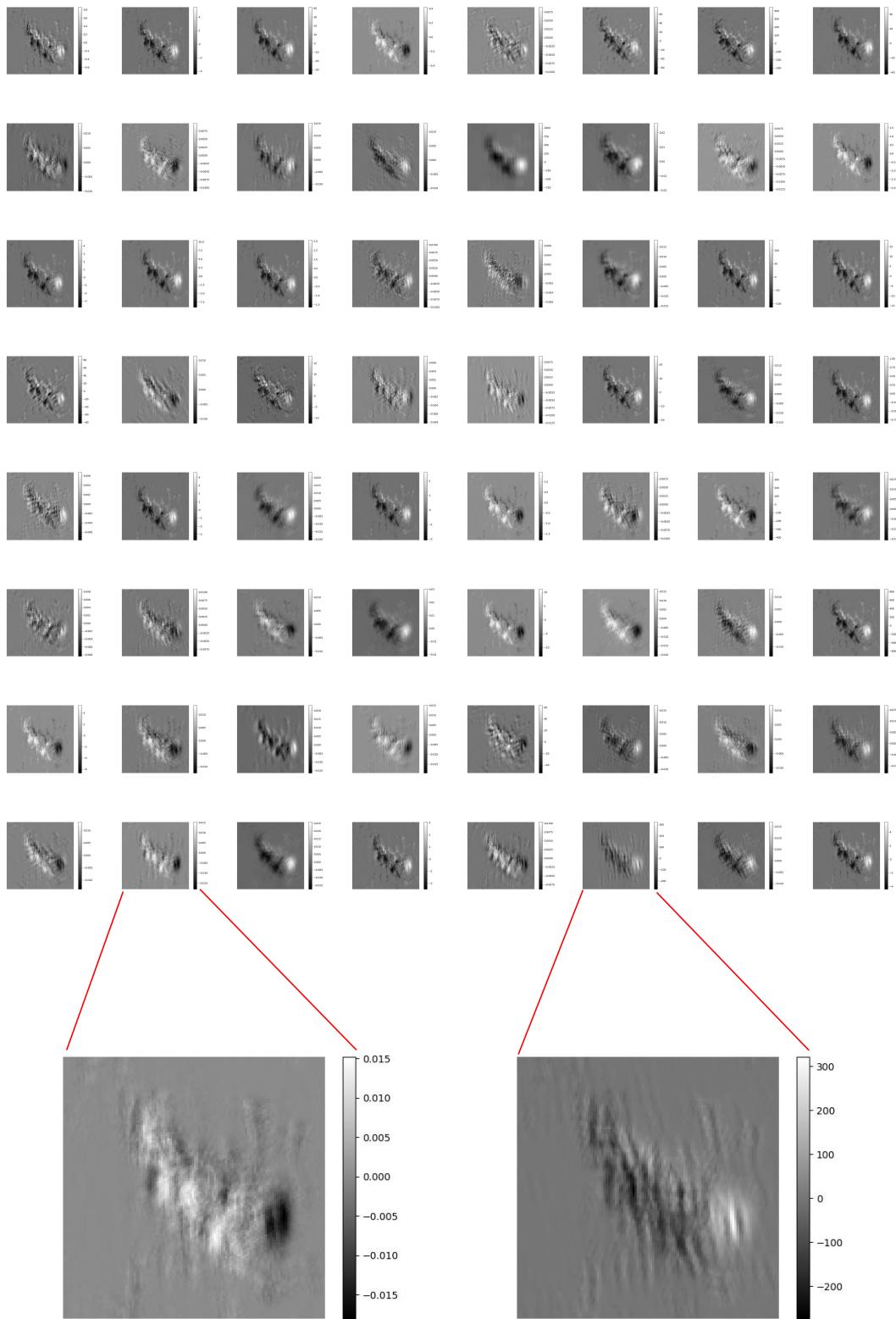
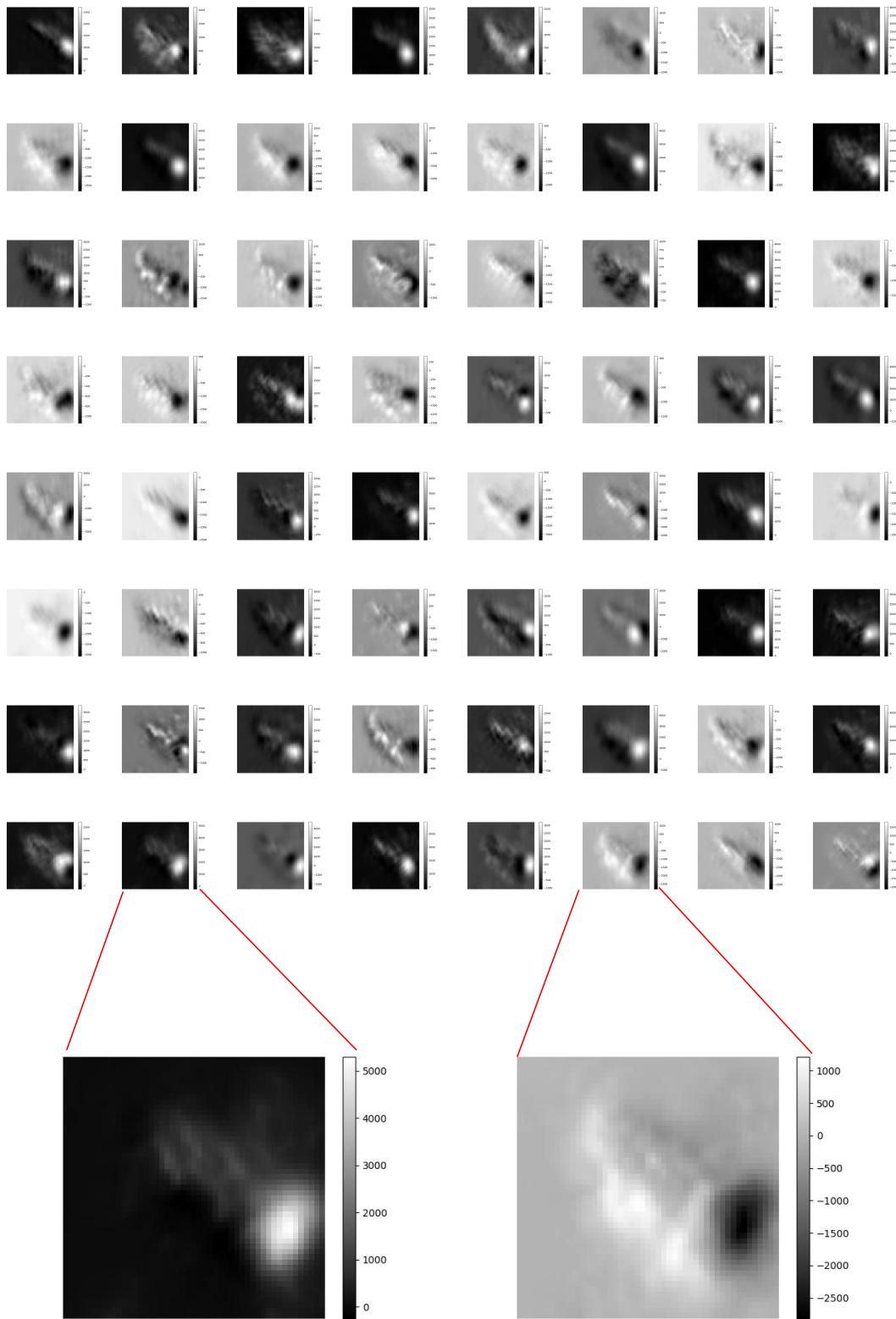


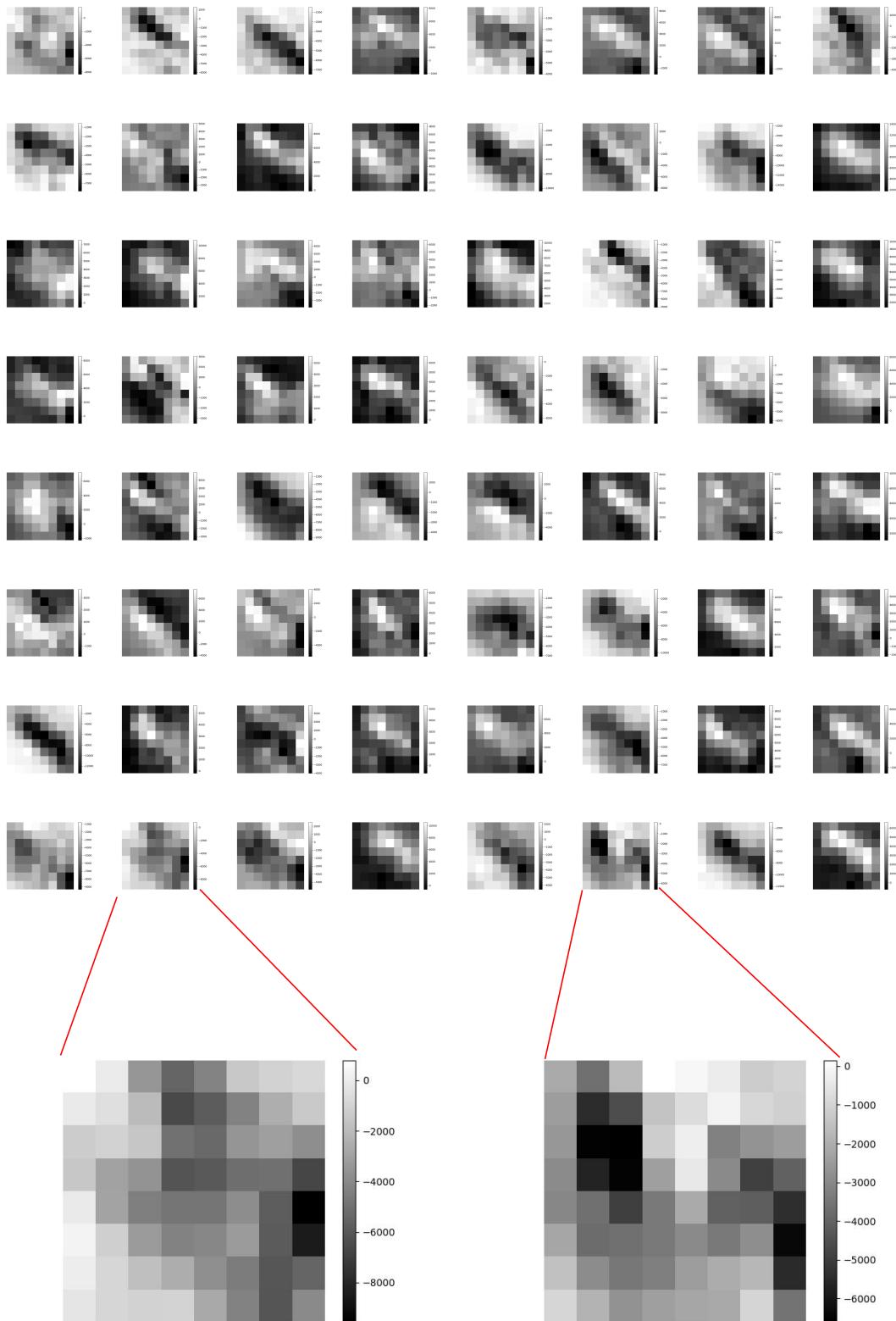
(a) Input image (128×128 pixels)



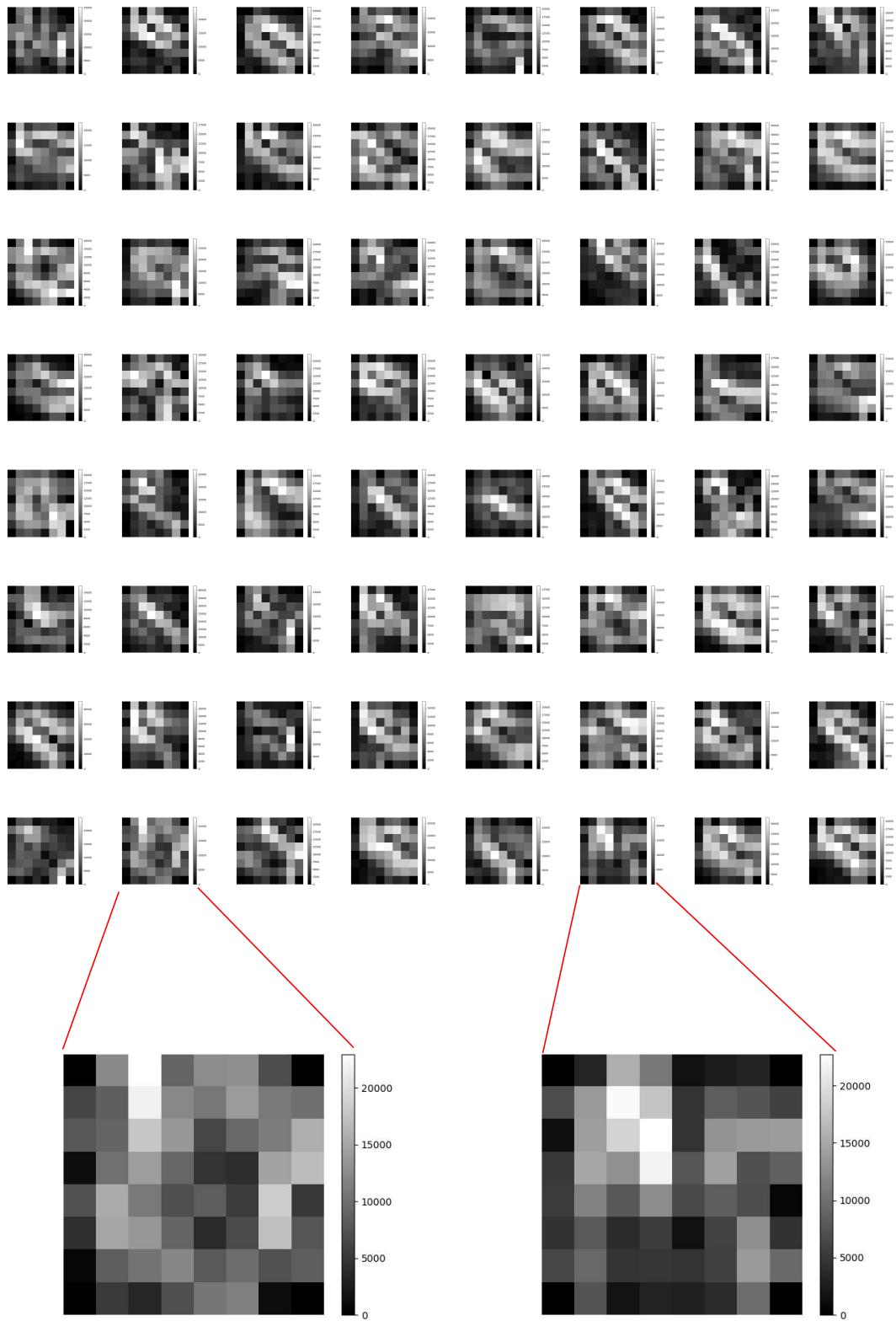
(b) Conv1 (64 feature maps, 118×118 pixels)



(c) Conv2 (64 feature maps, 49×49 pixels)



(d) Conv5 (64 feature maps, 8x8 pixels)



(e) Horizontal gradient images for the Conv5 feature maps (8×8 pixels)

Figure C2. The feature maps with colorbars from different convolutional layers for the model and the horizontal gradient images for the feature maps of the last or fifth convolutional layer in high performance prediction. (a) shows the input image as the input for the model, which is the LOS magnetogram sample of M-class AR 12241

observed at 16:48 UT on 2014 December 17. (b), (c) and (d) show the outputs of the first, second, and fifth convolutional layers, respectively. (e) shows the horizontal gradient images for the feature maps of the fifth convolutional layer. The values on the colorbars are in Gauss units for Figures(a)-(d) and in Gauss per pixel units for Figure(e) respectively, and they can be clearly seen by zooming in.