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Jerome Gilles, Melissa Tong and Luminita Vese*, lvese@math.ucla.edu. *Restoration of images corrupted by atmospheric turbulence*. Preliminary report.

We study the problem of restoring images distorted by atmospheric turbulence. Geometric distortions and blur are the two main components of degradations due to atmospheric turbulence, and prior work has been done to address these components separately. We propose a joint variational deblurring and geometric distortion correction model and present numerical results on synthetic and real data. (Received September 26, 2017)