Attention Solar Physicists!

Please take the Solar Physics Image Perception Survey, at website:
http://solarmuri.ssl.berkeley.edu/~loraine/survey/

This is a survey being performed by graduate student Loraine Lundquist, at the University of California, Berkeley, for her Ph.D. dissertation.

Her project involves the synthetic creation of images to be compared with coronal observations. She is simulating active regions in a steady-state equilibrium, using photospheric vector magnetogram data as input. She generates the synthetic images using different proposed coronal heating relationships. The images represent predictions for what the active region would look like as viewed by Yohkoh SXT, and can be compared with observations of the active region. The hope is that some proposed heating mechanisms will produce consistently bad predictions, while others produce consistently better predictions, providing an observational constraint on the true coronal heating mechanism.

She has several quantitative tests for measuring how well the predicted images match the observations, but she is interested in seeing how these quantitative tests compare to human perception.

Please visit the site, and follow the instructions for taking the survey. You will rate predictions from 4 different heating mechanisms for each of several different active regions. It should take you about 5 minutes to complete. Survey results are displayed automatically following submission.

Note: all images are created using the same color table, with the same minimum and maximum values.

For more information about this project, please direct inquiries to
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