

Interactive comment on “A 30-meter resolution national urban land-cover dataset of China, 2000–2015” by Wenhui Kuang et al.

Anonymous Referee #3

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1 Page 4 line 4-10: Please explain how the method used by CLUD to extract urban areas is Machine learning or manual interpretation? How do the errors on the boundary affect the analysis results of the proposed data set?

2 Page 4 line 4-10: "With prior knowledge of image classification and human computer visual interpretation, we extracted urban land in Suzhou by detecting the city's boundaries", the authors used CLUD to extract the city boundary, but the prior knowledge and visual interpretation were used to extract the boundary of Suzhou. Do all cities in the dataset use the boundaries with visual interpretation?

3 Page 4 line 13: What's ISA fraction? The fraction should be appeared in the manuscript.

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4 Page 4 line 24-25: "In addition, the input parameters required by logistic regression's ISA classification data and NDVI maximum data" can be obtained through existing methods and datasets", It would be better to explain what parameters they are.

5 Page 5 line 23-25: "The spectral unmixing method was employed to unmix the Landsat multispectral bands into the four endmembers. A decision tree was built to classify the high-albedo surfaces, low-albedo surfaces, water, vegetation and bare soil based on the fractions after unmixing and the calculation of indexes" , how did the authors use the MNF to process different remote sensing images which have different atmospheric conditions?

6 Page 6 line 11-22: It would be better to use high resolution images to interpret the green space and then verify the accuracy of UGS.

7 Page 6 line 29-30: "Because of its relatively high accuracy...", how high is the accuracy?

8 Page 8 line 11-19 : "In our dataset, the urban and rural areas are well distinguished because of a good definition of urban area", the authors should provide more convincing evidence to prove the good definition of urban area.

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