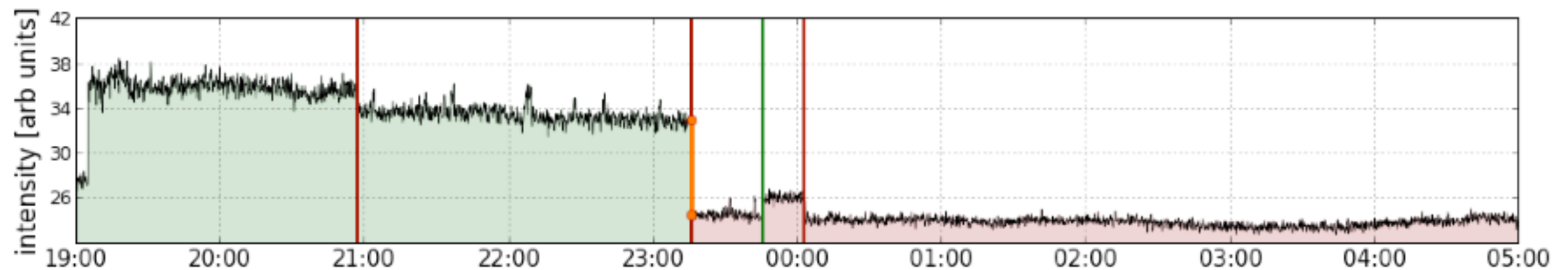


Selecting on/off transitions

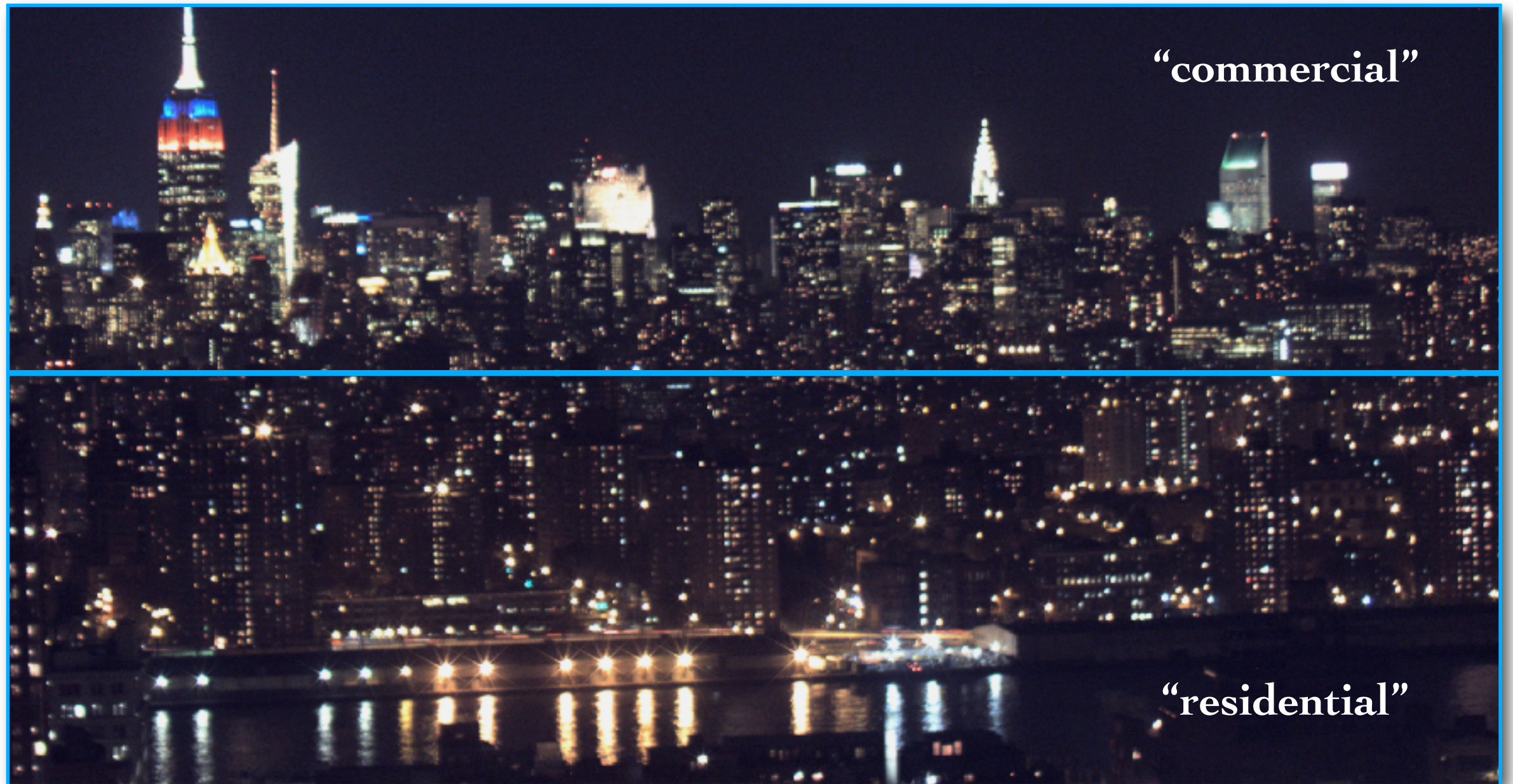


For a given light curve, on/off transitions are identified via an automated algorithm:

- selects large “jumps” in the light curve relative to background fluctuations
- 3-color information and noise statistics are used to improve accuracy
- does not involve any human intervention or interpretation for analysis of individual light curve transitions (i.e., the analysis is de-identified)

In aggregate, on/off transitions are a measure of human (and automated) activity that can yield information about occupancy, **behavioral properties of the population**, etc.

Subdividing the city



Our “residential” and “commercial” regions are not **pure**, there is some cross contamination of each.