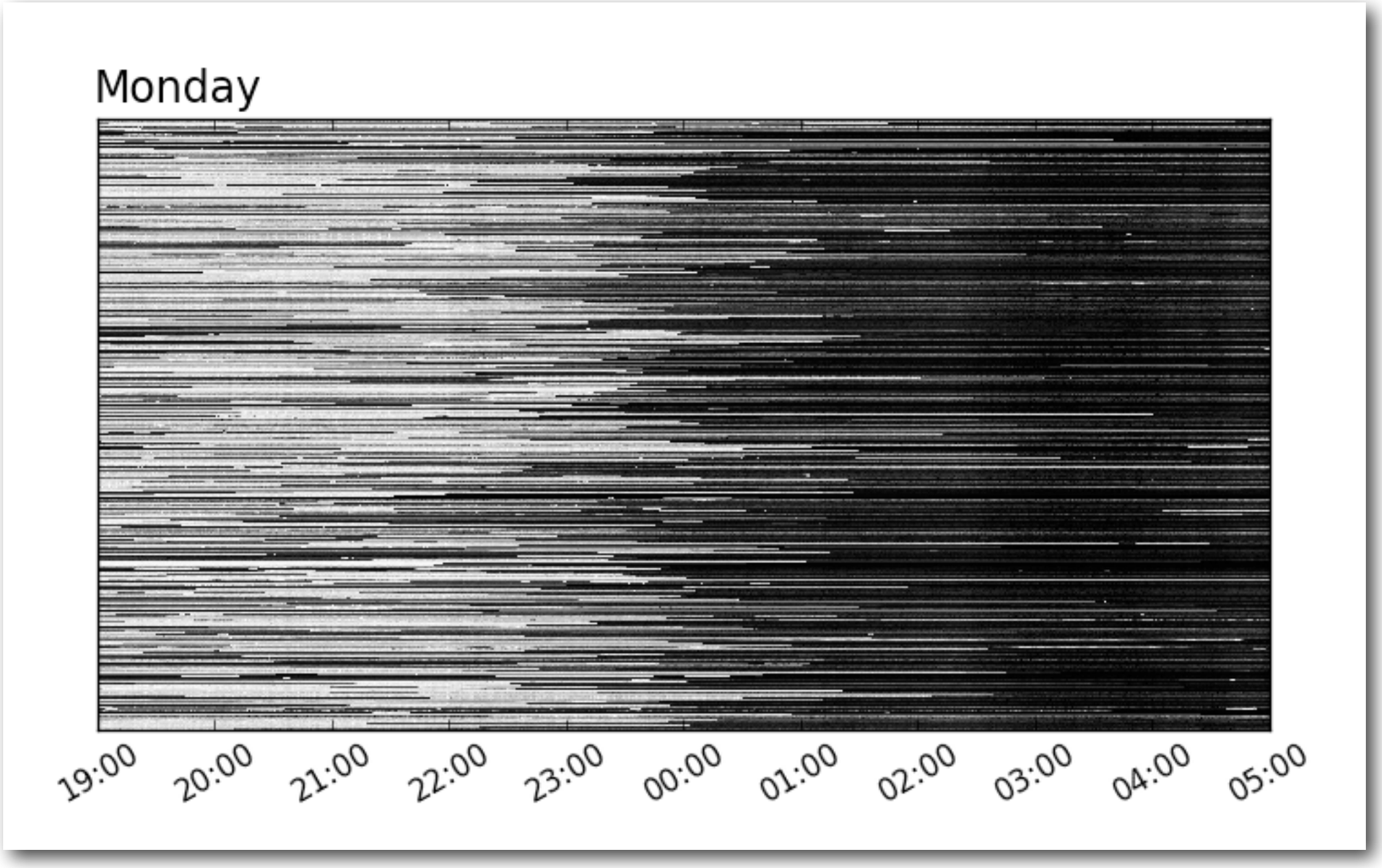
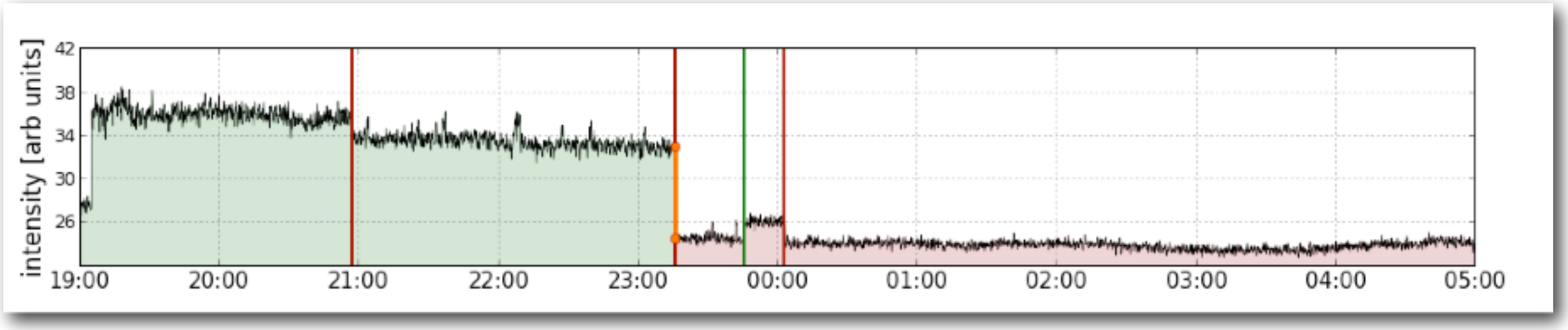
Identifying patterns of behavior



These light curves are reasonably unordered, but is there a discernible pattern hidden in the data?

For example, what if we were to order them according to their “final” off transition?

Selecting big off transitions



For each light curve that turns off at least once, there is an off transition for which

$$\delta = \langle I(t < t_{\text{off}}) \rangle - \langle I(t \geq t_{\text{off}}) \rangle$$

average brightness before — average brightness after

is a maximum; we define this as the "biggest" t_{off}.

It is important to keep in mind that:

- there may be other on/off transitions after the biggest t_{off}
- there is no **direct** implication of individual behavior