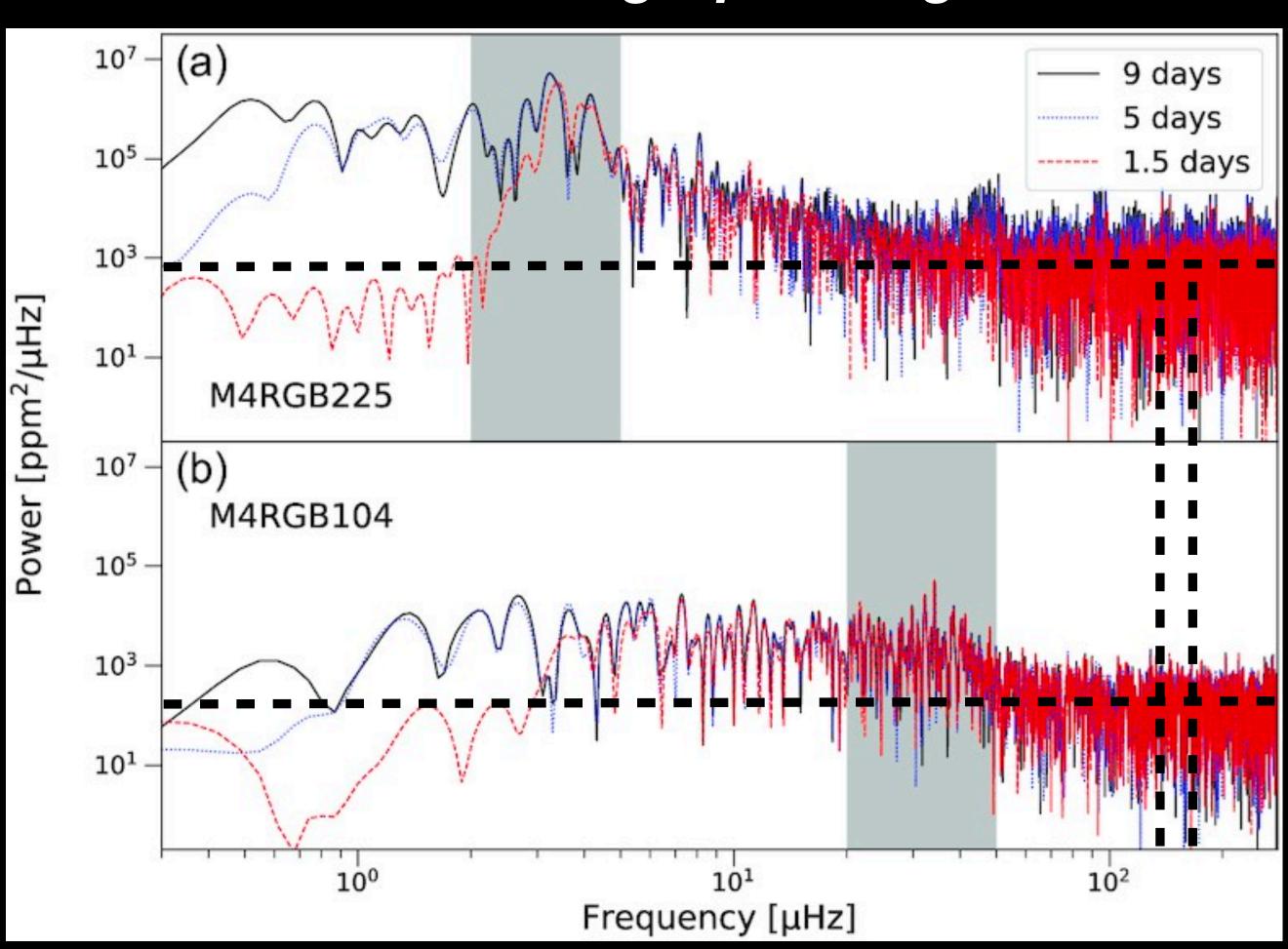
Data Treatment

Aperture mask and de trended

- Due to the large pixel size and the crowd environment, there is evidence of blending between stars
- 3 steps:
 - 1) custom individual mask (Around peak)
 - 2) A pixel level decorrelation (instrumental drifts)
 - 3) Self flat fielding corrector (long terms trends, they pick a time scale of 9 days)

Lomb-Scargle periodograms



Data Treatment

Shape base distance Algorithm (SBD)

- to quantify the similarity between two power spectra.
- A perfect correlation corresponds to a metric of 0 and an Anticorrelation corresponds to a metric of 2.
- They test this for neighbour stars and discard those who had very similar pattern (Contaminated)

(angular distance of ~8") a neighbouring star.

