

## Traditional Tanabata Festival ; Measuring the success of the “lightdown” II

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We, the Earth science club have agreed with “Traditional Tanabata Festival Lightdown campaign” and have continued to promote it within Gunma prefecture since 2014. Traditional Tanabata Lightdown is an event in which we recommend you to look up at the starry night and turn off lights of houses, buildings and so on. And it is on July 7<sup>th</sup> by the lunar calendar from 20:00 to 22:00. We have groped for how we can assess the effects of Lightdown from a viewpoint of science and tried to experience it in various ways over the last two years. For example, we have tried to measure and extract only artificial light sources. We have divided the brightness of pixel into two parts. Using our methods had good results. Though the result of our experiments about Lightdown seemed bad, we observed the effect of “Mountain day”, a new national holiday in Japan from last year.

Keywords: Lightdown, Traditional Tanabata Festival