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*Supplement of*

## **Solar 27-day rotational period detected in wide-area lightning activity in Japan**

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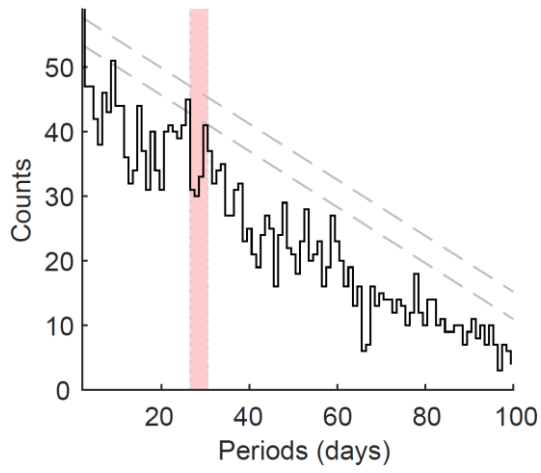


Figure S1. Periodicity of wide-area lightning activity covering more than 4 prefectures at the Sea of Japan side from November to March. The gray dashed lines correspond to 2 and 3 standard deviations. The red bars indicate the 27–30 day period.