

## Research in lightning position by sound and exploring the relationship between lightning and sprites

\*Nazuna Mitani<sup>1</sup>, \*Ayaka Okatani<sup>1</sup>, Yuka Ikeda<sup>1</sup>, Daiki Urushihara<sup>1</sup>, Ryota Fujii<sup>1</sup>

1. Kagawa Prefectural Sambommatsu High School

Eight high schools have been conducting joint observations of sprites since 2007. We observed about 6400 sprites in 10 years. In 2017-2018, we conducted lightning strikes observation using IC recorders in Kanazawa City. The position of the lightning strike was estimated from the observation data. We would like to reveal the relationship between sprites and lightning strikes.

Keywords: Sprite, Lightning strike