

Building of the Airglow waves observation System and Relation to the Elves with striped structure

*Keiichi Hashimoto¹, Koki Mogi¹, Soma Uchida¹

1.Iwata Minami High School

Our passed study indicated that the striped structure on the Elves are related to the Airglow. However, we analyzed only one Elves at that study. In addition, the data of the Airglow we compared with the Elves we observed in Iwata, Shizuoka was from Shigaraki Observatory of Solar-Terrestrial Environment Laboratory, Nagoya University.

Thereupon we built an observation system for the Airglow that runs simultaneously with ones for TLEs and afterward, we succeeded in observing an Elves occurred over the Sea of Japan and the Airglow at the same time on January 15th, 2016.

The result of our analysis matched with the passed study.

Keywords: Transient Luminous Event, Airglow, Elves