

## A simulation of Sq by the middle atmosphere circulation model at Kyushu University

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It is known that Sq has a seasonal variation. In the solstice seasons, it is stronger in the summer hemisphere than the winter hemisphere, and it is almost symmetric about the equator in the equinox seasons.

Equivalent Sq currents are calculated assuming the symmetric conductivity using output neutral wind data generated by the middle atmosphere circulation model at Kyushu University. It is shown that the calculated current system is consistent with the observed current system. The present results suggest that the seasonal variation of the Sq is mainly explained by the seasonal variation of the neutral winds in the dynamo region.