E114-P032 Room: Poster Session Hall Time: May 22

Field-aligned current generated by the ionospheric Sq dynamo - Mechanism and effect on the geomagnetic Sq field

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Ionospheric dynamo drives not only the ionospheric currents generating geomagnetic Sq field but also the inter-hemispheric field-aligned currents. At the solstices the currents flow as if the dynamo action is stronger in the summer hemisphere. The generation is mostly due the difference of the conductivity distribution between the hemispheres.