The Solar and Interplanetary Causes of Geomagnetic Activity: A Historic Review

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A historical review of the solar and interplanetary causes of: intense magnetic storms, ~25 day recurring moderate intensity storms, continuous substorms and geomagnetic quiet will be presented. Space-age plasma physicists have demonstrated that the process of magnetic reconnection between interplanetary magnetic fields and the Earth’s magnetic fields can explain all of the geomagnetic phenomena listed above.