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## **Comparative study of thermospheric storms observed by Champ**

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We analyzed total thermospheric density retrieved from the STAR accelerometer on-board CHAMP, for years 2002 to 2005. We focused on thermospheric storms that correspond to a global increase in thermospheric density at mid and low latitude, by more than 100 % during night time.

We investigate the possibility of classifying the 30 identified thermospheric storms as a function of magnetic activity and solar wind parameters at L1.