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A study of the parameters involved in solar wind-magnetosphere interaction in quiet time

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Last year could be considered as an extraordinary quiet time. Provisional values of geomagnetic Dst index along the whole year 2007 do not reach -100 nT any time. As a result, this period provides high quality experimental data to study the Sun-Earth coupling in quiet time. In this work, solar wind parameters, as dawn-dusk electric field and dynamic pressure, have been related to measurements in the terrestrial environment, such as Dst index and the population of the radiation belts. Statistical results from quiet time are compared with those with those for long periods of data set including quiet and disturbed time.