



THOR contribution to space weather science

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Turbulence Heating Observer - THOR is a mission proposal to study energy dissipation and particle acceleration in turbulent space plasma. THOR will focus on turbulent plasma in pristine solar wind, bow shock and magnetosheath. The orbit of THOR is tuned to spend long times in those regions allowing THOR to obtain high resolution data sets that can be used also for space weather science. In addition, THOR is designed with enough propellant to reach L1 in the second phase of the mission if necessary. Here we will discuss the space weather science questions that can be addressed and significantly advanced using THOR. Link to THOR: <http://thor.irfu.se>.