



Magnetospheric multi-scale missions

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The interaction between the magnetic fields of the Earth and the Sun occurs over a range of scales between a few and several 1000 km, with the smallest scales driven by the larger ones. Measurements have never been made on the smallest required scales. Nor do we know how the larger solar wind scales feed into the smallest (and vital) electron physics scale. Thus a comprehensive set of measurements over several scales is vital for understanding these basic space plasma phenomena.