

## **REPORTER REVIEW: GLOBAL DYNAMICS OF THE MAGNETOSPHERE**

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Global scale numerical modeling has been effectively utilized the by the magnetospheric community to study several aspects of the highly coupled solar wind-magnetosphere-ionosphere system. This review will report on recent working using the approach to address key questions in magnetospheric physics. It begins with an overview of the global modeling approach concentrating on the latest developments in these models which includes coupling global models to regional models. Next, current work using global modeling to examine how plasma enters and is transported through out the magnetosphere is discussed. Mass coupling between the magnetosphere and ionosphere is also an important source of plasma that has seen a renewed modeling effort. Results from modeling the plasma and magnetic field in the inner magnetosphere comprise the final topic. The review will conclude with a few comments on where research with global modeling is headed.

magnetosphere, ionosphere, MHD, modeling

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