

# A New Perspective on the Relationship Between Substorms and Magnetic Storms

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There has been considerable debate on the role of substorms within magnetic storms from the initial, seminal work of S. Chapman and S.-I. Akasofu, to the more recent Kamide et al. (JGR 1998) review. We take more recent findings, particularly those using satellite UV auroral imaging to review this important topic anew. In particular, we will broaden the types of collective magnetospheric/ionospheric large scale collective events discussed to include convection bays and high-intensity, long-duration continuous AE activity (HILDCAA) events. Once this is done, we arrive at a new perspective of the relationship between substorms and storms. We suggest tests that can be made to determine whether this hypothesis is correct or not.