

Dipolarization at Postmidnight Sector Observed by Double Star and Cluster

R. NAKAMURA¹, T. L. ZHANG¹, C. M. CARR², A. BALOGH², H. REME³, I. DANDOURAS³, W. BAUMJOHANN¹, T. TAKADA¹, M. VOLWERK¹, Y. ASANO¹, H. EICHELBERGER¹, K-H.GLASSMEIER⁴, C. MOUIKIS⁵, L. M. KISTLER⁵, B. KLECKER⁶, and O. AMM⁷

> ¹IWF/OEAW ²Imperial College ³CESR ⁴U. Braunschweig ⁵U. New Hampshire ⁶MPE ⁷FMI

TIn this paper we study two types of dipolarization events with different IMF condition when Cluster and Double Star (TC1) were located at the same local time in the dawn sector: August 07, 2004, 18-24 UT, during disturbed southward/northward IMF, and August 14, 2004, 21-24 UT, when IMF was stably northward. Cluster observed dipolarization as well as fast flows for both intervals but this was not the case for Double Star (TC1). For both events the satellites crossed near the conjugate location of the MIRACLE stations. By using multi-point analysis techniques, the direction/speed of the propagation is determined within Cluster and is then compared with the disturbances at the Double Star to determine the spatial (temporal) scale of the possible sources.