

GLE Events and their Associated CME and Particle Events

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Intense flares/coronal mass ejections (CMEs) are associated with strong particle events and subset of them produce ground level enhancements (GLE) of cosmic ray at the Earth. In this paper, we investigate the interplanetary effects produced by the CMEs associated with the GLE events. We consider ~ 30 GLE events occurred between years 1989 and 2006. The interplanetary scintillation images, obtained from the Ooty Radio Telescope in the heliocentric distance range of $\sim 40\text{--}250 R_{\odot}$, have been analysed to infer the radial evolution of each CME and compared with its particle profile. The preliminary result of this study suggests that for well-earth connected particle events, the particle acceleration in the interplanetary medium is linked to the speed profile of the CME.