

Analysis of the July 14, 2000, GLE

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Abstract. An attempt has been made to determine the spectral parameters and the anisotropy of the solar protons responsible for the July 14, 2000, ground level enhancement (GLE). The analysis is based on the short-time data of 23 neutron monitors of the worldwide network. Cutoff rigidities and directions of approach have been calculated for selected times throughout the event utilizing the trajectory tracing technique with an advanced model of the magnetospheric

magnetic field. Different techniques have been used to deconvolve the intensity-time profiles of the ground-based cosmic ray detectors to obtain information about the solar particle flux near Earth. We discuss specific aspects of the analysis and summarize first results.

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