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SEP Event Timescales and Solar Wind Streams

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Abstract content

Recently, the times from CME to onset, the rise times and durations of 20 MeV proton events observed on the Wind spacecraft during 1998-2002 were compared with ambient solar wind O+7/O+6 values to search for correlations with solar-wind (SW) stream types. Here we compare the same three SEP timescales with their associated SW components classified as high-speed streams, slow wind, and transient structures by Richardson et al. (2002). The SEP events are sorted into five groups based on solar source longitudes to compensate for well known variations of timescales with connection longitudes. Within the large variations among the events we find only a slight trend for shortest timescales in transient SWs and longest in fast-wind regions. The median timescales as functions of both longitude and solar-wind type are given in a table.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 1 (SH), pages 143-146

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