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X-ray Flare Characteristics and Probability of Solar Proton Events.

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Abstract content

The relation between solar particle enhancements near the Earth and solar flares properties is studied using as a working tool an extensive database of SXR flares and proton fluxes. This database includes about 63000 SXR flares observed by GOES satellites and >1200 proton enhancements over period of time covered 1975-2006. Heliolongitudinal distribution of solar sources of the most intense proton enhancements, which have been observed by neutron monitor network is discussed in details. Feasible for usage in the real time regime probabilistic models for the different types of proton enhancements are proposed based on the SXR flare location and importance.

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 167-170

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