

Radiation Hazard from Great SEP Events for Aircrafts: Monitoring and Forecasting by Using On-Line One-Min Cosmic Ray Data

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We show that monitoring and exact forecast of the radiation hazard from great Solar Energetic Particle (SEP) events for aircrafts can be made by using high-energy particles (few GeV/nucleon and higher) which transportation from the Sun is characterized by much bigger diffusion coefficient than for small and middle energy particles. Therefore high energy particles came from the Sun much more early (8-20 minutes after acceleration and escaping into solar wind) than main part of smaller energy particles caused dangerous situation for electronics and for crew and passengers health (more than 30-60 minutes later). We describe here principles and experience of automatically working of program.