Contribution ID : **727** Type : **Poster**

WORLD GRID OF CALCULATED COSMIC RAY VERTICAL CUTOFF RIGIDITIES FOR EPOCH 1995.0

Friday, 6 July 2007 14:45 (0:00)

Abstract content

A world grid of vertical cosmic ray cutoff rigidities was calculated using the Definitive International Geomagnetic Reference Field for Epoch 1995.0. These cutoff rigidity values show the effects of the continued evolution of the geomagnetic field. The average cutoff values continue to decrease especially in the South Atlantic and South American areas. However, in some areas of the world, the cutoff values are increasing. These temporal changes are particularly apparent in the change of the location of the cosmic ray equator. These cutoff rigidity values have extensive use, especially for computing aircraft radiation dose by the CARI-6 software.

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 733-736

Primary author(s) : Dr. SMART, Don (Emeritus, Air Force Research Laboratory)

Co-author(s) : Dr. SHEA, Margaret (Emeritus, Air Force Research Laboratory)

Presenter(s) : Dr. SMART, Don (Emeritus, Air Force Research Laboratory)

Session Classification : Posters 2 + Coffee

Track Classification : SH.3.6