COMMENTS FROM REVIEWER

The paper "Ionization effect of solar particle GLE events in low and middle atmosphere"

I. G. Usoskin, G. A. Kovaltsov, I. A. Mironova, A. J. Tylka, and W. F. Dietrich presents an interesting very useful application of CRII model, namely calculation og ionization rates due to major GLEs.

The ionization effect due to 20 Jan. 2005 major GLE deserves special intention.

The manuscript is well structured, the length of the paper is adequate, the presentation is clear and reaches the international standards, the size of figures is adequate and contains the necessary information.

The reviewer welcomes publication of the manuscript after minor revision and more details given below:

Please compare or comment shrotly the results presented in

Alexander Mishev, Peter Velinov, Lachezar Mateev

Atmospheric ionization due to solar cosmic rays from 20 January 2005 calculated with Monte Carlo simulations, Comptes rendus de l'Académie bulgare des Sciences 63(11), 2010, 1635-1642

Replace everywhere in the text little with small (as example page 30383 line 3).

Page 30382 line 2 : new reconstruction what ?(method, data) please precise

Page 30384 line 23 Frobush is a missprint pleae correct

Page 30387 line 6: Fluence is usually expressed for neutrons. In this case I think that flux is precise.

Page 30388 line 20. The same as previous