



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_29210
Title of the Manuscript:	Ion distribution functions and transport properties in collision-free auroral ionosphere under arbitrary electric fields
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>The problem discussed in the paper is interesting and very important for geophysics. This fact is demonstrated by a series papers cited by this manuscript.</p> <p>The paper is well written but a few revisions have to be made:</p> <ol style="list-style-type: none"> 1. First of all you have to shorten your introduction and summary because these sections are too long and therefore not transparent for readers. 2. Describe shortly mathematical software used for numerical simulation. 3. The paper contains a long list of variables which can be incomprehensible for some readers. Therefore I suggest setting up the vocabulary with short explanation. <p>The manuscript can be published after consideration the mentioned remarks.</p>	<p>Thanks for the comments!</p> <p>1. Much grateful! Both the Introduction part and the Summary & Discussion part are shortened significantly to give clear prominence of the theme of the work for readers' transparency.</p> <p>2. By following the advice, I add in Section 3 a brief description of the mathematical software used for numerical simulation, and a reference book is cited. The text is as follows: We made use of the numerical recipes in Fortran 77 (Press et al. 1997) to develop a semi-numerical code used for the numerical simulations. The code contains subroutines to solve a set of differential-integral equations to produce simulation data of ion velocity distributions and transport parameters.</p> <p>3. A Table of the "List of variables with physical explanations" is added at the end of the paper as Appendix, in which all of the parameters appearing in the paper are listed with physical explanations.</p>
Minor REVISION comments		
Optional/General comments		