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Book Name:	<a href="#">Geography, Earth Science and Environment: Research Highlights</a>
Manuscript Number:	Ms_BPR_4566
Title of the Manuscript:	Balance Circumstances of Planetary Atmospheres and Causes of Gaseous Escape and Collapse of Earth's Ozone Layer
Type of the Article	Book Chapter

**General guidelines for the Peer Review process:**

Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.

This Book’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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	<b>Reviewer’s comment</b> <b>Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.</b>	<b>Author’s Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	This manuscript presents various interesting data and facts about atmospheres of different planets of the solar system and other information related to the title of the manuscript. It intends to explain the equilibrium conditions of the atmospheres of planets and deals, among others, with all sort of facts and data related to the concept of atmosphere.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	Yes	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	The English of paper is, barely readable. The infinite long phrases are almost impossible to be read and understood. They MUST be split into appropriate understandable phrases and sentences. Moreover, the entire English of the paper should be seriously and completely revised, since is faulty also from other reasons: wrong or inappropriate words, grammatical errors and other various language errors.	
<b>Is the manuscript scientifically, correct? Please write here.</b>	<p>in the form that they are presented, some of the scientific explanations are essentially wrong from the point of view of the mathematics and physics of the equilibrium state presented.</p> <p>The condition of equilibrium regards (according to the manuscript) the equality between the gravitational force and the force of pressure, but from scientific point of view the gravitational force, being a force is measured in Newtons (N), whereas the pressure is measured in Newtons per square meter (N/sqm), so an equality between those two is impossible to exist. This error is many times exhibited in the manuscript, inclusively in the page 50 of it. This page and others should be either corrected or completely removed from the manuscript, since they are scientifically incorrect.</p> <p>The manuscript should better explain and clearly state that there is an equilibrium between the gravitational force and the forces caused by the pressure differences between the layers of the atmosphere, not by the pressure itself, as it is explained below:</p> <p>The actual explanation regarding the mentioned equilibrium condition, is that the gravitational force is in balance with the force caused by the differences in pressure between the atmospheric layers, taking into account that the atmospheric pressure decreases with the altitude.</p>	

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	So, from the point of view of this explanation, on which the entire manuscript is based upon, the manuscript should be revised. If it is not possible to provide a more solid mathematical foundation for the above explanation, then the manuscript should at least present this equilibrium in a proper manner.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Yes	

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Is the language/English quality of the article suitable for scholarly communications?	No	
<u>Optional/General</u> comments	<p>Although, taking into consideration all the above presented weaknesses and shortcomings, the manuscript also contains a lot of interesting data and information which are useful to understand the concept of atmosphere, facts about it and the implications of human actions.</p> <p>There are presented the atmospheres of the planets in the Solar system with their characteristics, taking into account the equilibrium factors: their masses (gravitational forces), their gas compositions, temperatures and their distances from Sun.</p> <p>There are very good presented the factors causing gaseous escapes of the Earth's atmosphere and statistical data regarding the pollution with gas emissions by each industry. The largest polluters of the Earth's atmosphere by country, the causes for the decomposition of the ozone layer, the airglow phenomenon, and various other interesting data and phenomena regarding the Earth's atmosphere, are also presented.</p> <p>It is absolutely necessary to completely revise English of the manuscript.</p> <p>If it is not possible to appropriately complete and improve the mathematical model presenting the equilibrium condition, then it is absolutely necessary to make the corrections mentioned, regarding the scientific explanations of the equilibrium condition of the planets' atmospheres. Also, possibly add some other additional explanations for the reader of the manuscript regarding this equilibrium condition.</p> <p>Remove or correct page 50 and all pages which contain the same type of error.</p> <p>The manuscript addresses one of the most important issues of our planet, and it contains a lot of interesting and useful data.</p> <p>Therefore, it is recommended to be published, after making all the necessary corrections and improvements</p>	

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## **PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in detail)</i>  No	
<b>Are there competing interest issues in this manuscript?</b>	No	
<b>If plagiarism is suspected, <u>please provide related proofs or web links.</u></b>	No	

**PART 3: Declaration of Competing Interest of the Reviewer:**

I declare that I have no competing interest as a reviewer
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## **PART 4: Objective Evaluation:**

Guideline	MARKS of this manuscript
<p>Give OVERALL MARKS you want to give to this manuscript ( Highest: 10 Lowest: 0 )</p> <p><b><u>Guideline:</u></b>            Accept As It Is: (&gt;9-10)            Minor Revision: (&gt;8-9)            Major Revision: (&gt;7-8)            Serious Major revision: (&gt;5-7)            Rejected (with repairable deficiencies and may be reconsidered): (&gt;3-5)            Strongly rejected (with irreparable deficiencies.): (&gt;0-3)</p>	7

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**Editorial Comments (This section is reserved for the comments from book editorial office and editors):**

	Author's Feedback

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