



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	Ms_PSIJ_41720
Title of the Manuscript:	Adiabatic Lapse Rate of Water Is Negative Due to the Negative Compressibility
Type of the Article	Short Communication

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>)

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	1.The italic should be applied on α at the line 17 2.Please give more details of the negative compressibility. 3.Please reformat the Eq. 4, 8 and 9. 4.The introduction does not list enough literates to verify the author's reviews.	Done. Negative compressibility is defined in my paper and its experimental proofs are given in [15-23]. In Eq. 4 the point at the end was absent, what is wrong with the other Eqs.? I extended the Introduction but what is literates?
Minor REVISION comments	1.You are suggested to give the definition of the Adiabatic Lapse Rate 2.The manuscript's language needs to be modified carefully by someone with expertise in technical English. 3.The abstract should be summarized again and put the emphasis on experiments. 4.In the conclusion section, the limitations of this study, suggested improvements and future direction of this work should be highlighted 5.You are suggested to give more details of the experiments	I included it into Introduction. The manuscript was sent to proofreading. My paper is a theoretical one, an extensive information on the experiments and vast experimental data are given in the references. I wrote in the Conclusions that my theory is valid in the narrow pressure-temperature range where negative compressibility takes place (pressures lower than 30 MPa for $T = 270$ K and lower than 60 MPa for $T = 260$ K). I wrote that direct measurements of compressibility of water in this low-pressure region are necessary. These is the only experimental work needed for confirmation of my theory.
Optional/General comments	This paper fall within the scope of the Physical Science International Journal, and the appropriate analysis has been conducted, but more details of the experiments are suggested to provide, so that we can benchmark the precise of the results, and the figure in Fig 1 are very blurry, you are suggested to make it clearly.	There are no Figures in my paper.