

Review Form 3

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_120934
Title of the Manuscript:	Comprehensive Alpine Glacier Inventory of Suru Basin Utilizing High-Resolution Sentinel-2 Data
Type of the Article	Original Research Article

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript handles an important issue concerning the influence of climate change on glaciers as an important source of fresh water. Utilizing high-resolution Sentinel-2 imagery and Digital Elevation Models (DEMs) shows an efficient way for accurate and up-to-date glacier mapping and inventory. Results of this study gives a clear picture to understand the impacts of climate change on alpine glaciers and inform water resource management and hazard mitigation strategies in the Suru basin.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Yes</p>	
<p>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.</p>	<p>Yes, no further modification is needed</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>Yes</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</p>	<p>The manuscript handles an important issue concerning the influence of climate change on glaciers as an important source of fresh water. Utilizing high-resolution Sentinel-2 imagery and Digital Elevation Models (DEMs) shows an efficient way for accurate and up-to-date glacier mapping and inventory. Results of this study gives a clear picture to understand the impacts of climate change on alpine glaciers and inform water resource management and hazard mitigation strategies in the Suru basin. In addition, it gives a deeper understanding of the region's glaciological processes, enhance our knowledge of the impacts of climate change on alpine glaciers, and inform water resource management and hazard mitigation strategies in the region.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</p>	<p>Replace the reference Bolch et al., 2019 with Bolch 2019</p>	

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Minor REVISION comments	Yes	
Is the language/English quality of the article suitable for scholarly communications?		
<u>Optional/General</u> comments	1 – Replace “It was shown by Zemp et al. (2006)” with “Zemp et al. (2006) reported”. 2 – Give a reference for the Sentinel-2 Imagery and DEM too. 3 – Define what is meant by multi-faceted approach? 4 – Why the caption of Figures 5 and 6 has a name of “heat map”? Can you explain in the manuscript what is meant by heat map? 5 – Why the focus is on the year 2022? Is it because of Sentinel-2 data availability or there is another reason? please explain.	

PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Samy Ashraf Anwar Rateb
Department, University & Country	Cairo University, Egypt