

Comments to the author:

Dear Dr. Kalifi,

I concur with Dr. Sue that your manuscript is fit for publication, albeit pending a final revision. I urge you to make sure the syntax of units and references in your figures (including those in the supplementary material) follow those of the article/journal. You will need to double-check your references. I found a few mistakes, and I suspect there are more to be found. Finally, my comments are mostly regarding your illustrations.

Best wishes,

Arjen Stroeven

Dear editors,

Thanks for the minor revision. We are pleased to propose you a new version of our manuscript following the review phase. We have responded point by point to the remarks/suggestions/corrections (see below).

We have made the necessary changes and corrections in the text ("Kalifi_et_al_manuscript_se-2021-46-review2-correction-track" file). The references were checked and the figures were updated.

Thank you in advance for continuing the submission process,

Yours sincerely

Amir KALIFI

In behalf of all co-authors

L.93 : « 1943 » *Corrected*

Fig. 1 (pg.5) « 45.000 E, 5.000 N, Genève, St-L.a » : *Corrected* / « Transfert fault » : *Replaced by transfer fault zone*

L.186 : « 1988 » *Corrected*

L.222: « Deville, 2021 » *Corrected*

Fig. 2 (pg.10) « Dating techniques; millions of years » : *Corrected*

Fig. 3 (pg.12) « 45.000 E, 5.000 N, Genève » : *Corrected*

L.301. “ Bas-Dauphiné ”: *The consistency within the manuscript and the figures and the Supplement materials were checked*

L.301. “Refer to figure 1 for additional information not mentioned here in the legend or the caption.”: *Added*

Fig. 4 (pg.13) « Uppermost »: *Corrected*

L.306: “Paleogeographical”: *The consistency within the manuscript and the Supplement materials were checked*

L.306: “explain the red arrow”: *Red arrow corresponds to the westward-directed*

Fig. 5 (pg.13): “cysts” : *Corrected*

Fig. 7 (pg.19): “geological; PALEO-ZOIC” : *Corrected*

L.444: “Barféty”: *Corrected*

Fig.8 (pg.22): “the cross-section lacks a length axis scale.”: *The length scale is in the lower left corner, above the legend.*

Fig.9 (pg.23): “Quaternary”: *Corrected*

L.490: “Deville, 2021”: *Corrected*

L.492: “Outherans (Ou)”: *Corrected*

Fig.10 (pg.24): “Quaternary, Tertiary, et al., x km”: *Corrected*

L.497: “Figure”: *Corrected*

Fig.11 (pg.28): “make depth values negative”: *Corrected*

L.588: “figure panel descriptions A-E do not match figure panels.”: *Corrected*

L.588: “give fig#”: *Corrected*

Fig.12 (pg.30): “Dating/Dating techniques”: *Corrected*

Fig.13 (pg.32): “paleogeographical, Seismite ”: *Corrected*

Fig.14 (pg.34): “Add N and E”: *Corrected : “list depth m? Altitude m asl? Explain PS-reverse and "mv": Corrected*

Fig.15 (pg.36): “probably correct but hard to use reference”: *We added “Montmiral high” in Fig. 9C / “m a.s.l.; Dating/Dating techniques/ remove "+" in A-C”/ Posamentier and Allen, 1999/ 200 m 2 km” :* *Corrected*

L.731: “Figure 15”: *Corrected*

Fig.16 (pg.38): “put white box behind?”: *A box was added*

Fig.17 (pg.40): "Inherited": Corrected / "this refers to information in figure 18? If not, use figure caption to explain.": Yes

L.811: "Figure 17": Corrected

Fig.18 (pg.43): "separate km and m from values": Corrected

L.880: "amounts": Corrected

L1027: "Barf ty, all 1996 references are wrong, except in Figure 7": Corrected

L1029: "arrange before B&G 1996": Corrected

L1080 to 1089: "not in the text, move to SM / references that are not used in the text (such as this one, but there may be several others) should not appear in this list of references. Where used in the supplementary material, please compile a list of references there.": Moved to Supplement materials

L1085: "Chevenoy, see Clauzon": All references which appears in the Supplement materials are now included within the SM and excluded from the main manuscript if it doesn't appear in it.

L1110: "to SM": Moved to Supplement materials

L1193: "to supplementary material": Moved to Supplement materials

L1205: "to SM": Moved to Supplement materials

L1221: "Jeannolin (1985)": Moved to Supplement materials

Fig. S1 (SM pg2): "wrong reference": Corrected

L36 (SM): "not "et al." in your list of references. There ARE mistrakes, so please double-check all of your references.": Checked

L41-42 (SM): "are all the vertical sections in "m"? If so, add to each profile or state in the figure caption.": All sections are in m and it was added in figures. (some values are given in m a.s.l. for the equivalence but it is now better differentiated)

Fig. S5 (SM pg7): "Dating, Seismite": Corrected

Fig. S6 (SM pg8): "Dating, Bottomsets": Corrected

Fig. S7 (SM pg9): "Dating": Corrected

Fig. S8 & S9 (SM pg10): "Dating": Corrected

Fig. S10 (SM pg11): "Dating; m a.s.l./ ? correct?": Corrected

Fig. S11 (SM pg12): "Dating": Corrected

Fig. S12 (SM pg13): "Dating; m a.s.l.; keep the same style throughout; not italics; (Gigout et al., 1976)": Corrected

Fig. S13 (SM pg14): "Dating; m a.s.l.; 300 m; 1-5 m; 1000 m; same style throughout": Corrected

Fig. S14 (SM pg15): "Dating; m a.s.l.; (Gigout et al., 1976)": Corrected

Fig. S15 (SM pg16): “Dating; m a.s.l.; marine?; (Gigout et al., 1976)”: *Corrected*

Fig. S16 (SM pg17): “Dating; m a.s.l.; Sables à Unios de M.; references”: *Corrected*

Fig. S17 (SM pg18): “Cysts, HCS needs explanation, Kalifi et al., 2020”: *Corrected*

Table S2 (SM pg24): “m a.s.l.; subscript”: *Corrected*

Table S3 (SM pg30): “m a.s.l.”: *Corrected*

Table S4 caption (SM pg39): “1998; SEPM chart”: *Corrected*

Table S5 (SM pg40): “m a.s.l.; rare”: *Corrected*

Table S6 (SM pg44): “N and E; ”: *Corrected*

Table S7 (SM pg69): “Uncertainty; use same style”: *Corrected*