

**Review of the revised HESS-2019-647: “Pacific climate reflected in Waipuna Cave dripwater hydrochemistry ” by Nava-Fernández et al.**

I am glad that the authors made a huge effort at improving the manuscript and at addressing the comments raised by myself and the other reviewer. Prior to its publication, however, I still have few requests for improvements. These are minor changes so I hope they won't take up too much time.

Best wishes

Note: the line numbers mentioned here correspond to the line numbers of the documents in which author responses and highlighted revised manuscript are combined as one file.

Line no.	Comments
55	I don't see this edit in the text
765	Yes, I understood that ICP-OES has not been used, and that's the reason why I asked because major elements such as Ca and Mg are more reliable when measured with ICP-OES. It makes sense that results from two ICP-MS are identical, and that's why I wonder if ICP-OES and ICP-MS would be identical too?
1031	Cave microclimate
1036	Please replace “in order to verify” with “to assure” (because the research is still ongoing)
1066	..both of these..
1075	Add a figure reference after “SOI indices” (see explanation below). The reference in the last sentence of this paragraph may seem not appropriate. I understand I suggested it, to produce a more convincing time series to appreciate the link of your study site to these southern oscillations, and I still believe adding a figure (may be as a subset in Figure 1) of time series of rainfall and SOI index is very helpful here.
1078-9	Delete last sentence
1093	For all ref. with Fairchild and Baker, 2012, please add a page number (since this is a book, and hence without a page number, the referencing is quite vague) Same comment for the book of Ford and Williams, 2007 (L. 1124)
1135	moisture availability sounds very strange, how about rainfall?
1179	“without any distinct rainy season”: earlier in the intro, you mentioned seasonality of rainfall, so I am confused with this statement
1180-1	so you think that 95 and 150 mm of rainfall is the same???
1201	I am still not convinced with this, because 1% equals 1000ppm, if you measure near atmospheric pCO <sub>2</sub> (~400ppm), how reliable would that be? Makes me think of the previous values 10% you provided that it may indicate the upper range of pCO <sub>2</sub> that the logger can measure?
1202	Replace conducted with “done”
1253	remove the dash (drip can be a word)
1286	It may be helpful to add in the map of figure 1 the location of these weather stations. Also some other locations (L.1353)
1295	For some drip sites, where drip rates were only....
1355	This work aims at evaluating..
1360	..reconstructions that are ongoing.
1366	“free draining nature” ?? how about permeability?
1368	Remove all the “via”
1374	...Organ Loft with higher ceiling.
1404	remove dot after humidity
1425	How about relative humidity inside the cave?
1459	Should this affect 17O excess as RH is reduced?
1470	Harrie Wood Cave (may be add the lat/long of this cave, or at least the specific region in Australia where it belongs?)
1496	pCO <sub>2</sub> instead of CO <sub>2</sub>
1499	would like to see a reference to this statement
1520	Modern ENSO signature in WC?
1535	“supporting our notion” → potentially explaining that...
1584	don't forget to replace the texts with an accessible link