Comment on bg-2022-101
Anonymous Referee #1

Referee comment on "Trace gas fluxes from tidal salt marsh soils: implications for carbon-sulfur biogeochemistry" by Margaret Capooci and Rodrigo Vargas, Biogeosciences Discuss., https://doi.org/10.5194/bg-2022-101-RC1, 2022

In general, the study presents useful contribution in our understanding of trace gas fluxes from saltmarsh ecosystem. I believe that manuscript is well-written and fits well in the frame of the basic requirement for Biogeosciences Discussion.

Please find below some specific recommendations which may be useful.

Introduction: This section covers the background information nicely.

Line 65: I suggest finding some recent references.

Lines 92-98: Please provide references.

Methods:

Line 134: How the position of the collars was selected to best represent the study area? What was the extent of the sampled area/total area?

Lines 135-137: Please describe how the disturbance to the soil was addressed while removing vegetation? Was all vegetation removed?
It seems to me that you have subsamples within the same area that presents the risk of pseudo replication. I suggest providing some more details about that.

Results

I could not see Table 2 mentioned in the text

Discussions:

Is this generalisation for temperate wetlands?

Reference needed

Reference needed

Conclusion: Well done. Very interesting read.