Reply on RC2
Xinfeng Liang

Community comment on "Characteristics of Robust Mesoscale Eddies in the Gulf of Mexico" by Yingli Zhu and Xinfeng Liang, EGUsphere, https://doi.org/10.5194/egusphere-2022-789-CC7, 2022

Thank you for your critical comments, particularly on the definition of eddies. As suggested by Dr. Francisco Beron-Vera, which you can find in our exchanges above, we are planning to use a different notation “SSH eddies” in the revised manuscript to distinguish our detected eddies from the Lagrangian coherent eddies. We will also remove references to advection, transport, or materials. By doing so, the readers can better understand the scope of this study and won’t likely make incorrect inferences. In addition, discussions about the differences between the mesoscale features presented in this study and the Lagrangian coherent eddies will be added in the last part of the study. We hope this revision plan can address the concerns you raised and sounds reasonable to you.