Comment on gmd-2020-438
Anonymous Referee #2

Authors have done a lot of experiments, and some of them should be useful. While some of them duplicated with previous plume modeling, such as Xia’s Cape Fear River Modeling (North Carolina State University, 2007) to discuss how the numerical scheme to impact plume’s structure modeling, which is the key part of this manuscript. The horizontal resolution and vertical layers were given discussion in Xia et al., 2007 and other papers which were listed below. Numerical mixing can be considered as numerical errors, and authors need be carefully to utilize the error for the physical explanation. Please re-format this work and do a more than major revision to provide insight the plume community. Please remove most experiments which was conducted from these papers below and other literatures, make this manuscript concise and useful. I will provide more comments after new version, not this long, wordy unclear one. Also did authors simulate the internal wave (line 68?)


