The response from the authors to my review resolved my major concern about the manuscript. After reading the response from the authors to the reviews and the revised manuscript I still have the following questions concerning the parameters D, D_i and D_t:

1. What is the relation between D_i (only used in Eq.1) and D and/or D_t?
2. What is D, a diffusion coefficient with the dimension \(L^2T^{-1}\) as suggested by Eq.(2) and line 200, or a flux as suggested in line 194 (salinity X velocity)?

I hope that the authors can resolve these issues before the manuscript is published.