

***Interactive comment on* “Numerical study of hydrodynamic and salinity transport process in Pink Beach wetlands of Liao River Estuary, China” by Huiting Qiao et al.**

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Response to evaluations of Reviewer #1: We agree with your major comments and suggestions. The replies are follows: 1. The location of Gaizhou Shoal in figure will be repainted in revised manuscript. 2. Page 8, us and vs is the velocity components in x and y directions for point sources in this manuscript. 3. In Figure 7, a blank area represents the part of the Gaizhou shoal is high enough to be exposed at the low tide, it will be explained in revised manuscript. 4. In Figure 13, the five stations of G1, G2, P1, P3 and P5 have been edited and was cleared. 5. The Liao River estuary has a complex terrain with a large area of tidal flats and shoals, which is one of the

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causes of the asymmetry of flood and ebb tide. In addition, there are a large number of *Phragmites communis* and *Suaeda heteroptera* in Pink Beach, the resistance induced by vegetation enhance the tide asymmetry. 6. In figure 19, the error will be modified in revised manuscript. 7. The mentioned part will be added to the revised manuscript 8. 'Based on the laboratory experimental data of flow velocities. ' will be revised 'Based on the experimental data of flow velocities. '

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