

***Interactive comment on* “Influence of terrestrial inputs on continental shelf carbon dioxide” by L.-Q. Jiang et al.**

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This is an important piece of work in that it quantitatively divided various components of terrestrial inputs of carbon on the pCO₂ on a continental shelf. The only thing I don't understand is why normalize the air-sea exchange. I do, however, have a few minor comments: 1. It is odd that the numerical value of the largest contribution, namely the shelf, is not mentioned in the abstract or anywhere in the text. Yet the value for the much smaller contribution from the rivers is given in the abstract and in the text. 2. It is common sense that the riverine contribution is larger near the coast and smaller off shore. Such a statement should not appear in the abstract. 3. The 1GtC/yr sink reported by Tsunogai is clearly in error and should not be cited so that the readers are not misled. 4. The statement that the shelf is 10-15m deep near the coast is not

accurate. Clearly the shelf reaches 0m in water depth. 5. The potential contribution from the submarine groundwater discharge ought to be mentioned.

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