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Interactive comment on “Contribution of non-carbonate anions to river alkalinity and overestimation of $p\text{CO}_2$ ” by C. W. Hunt et al.

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Incorrect numbers were reported in the Discussion paper when comparing the calculated $p\text{CO}_2$ and TALK using various sets of carbonate dissociation constants in the CO2SYS program (Lewis and Wallace, 1998). Page 5164, Lines 9-12 should read:

"The resulting $p\text{CO}_2$ differed from the “S = 0 freshwater” results by averages of –11 %, 17.5 % and 16 %, respectively. For TALK, the results differed from the “S = 0 freshwater” option by 6 %, –6 % and –3 %, respectively."

We regret this error; however, the changes in percent difference do not affect the overall conclusion: that the choice of the 'freshwater' option in CO2SYS resulted in calculated TALK and $p\text{CO}_2$ which fall in the middle of the range of values produced using different

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sets of dissociation constants.

Lewis, E. and Wallace, D.W.R.: Program Developed for CO₂ System ORNL/CDIAC-105, Carbon Dioxide Information Analysis Center, Oak Ridge National Laboratory, U.S. Department of Energy, Oak Ridge, Tennessee, 1998.

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