1. Data for soil C pool and rate was calculated from Table. 6

The paper does not report carbon density directly. We calculated carbon density from Table 6, which reported percent organic content (matter) and bulk density, but not carbon concentration. They provided data for two marsh plant communities at three sites, for a total of 6 unique observations. To calculate carbon density, their data were entered into a spreadsheet, then processed with SAS code to calculate carbon density. The calculation steps were as follows:

a. Convert organic matter (OM) to organic carbon units.

We used the following equation developed by James Holmquist (in review):

SoilCC=0.074\*(OM/100)\*(OM/100) + 0.421\*(OM/100) - 0.0080, where

SoilCC = C concentration in units of grams C per grams soil

OM = organic matter concentration in units of grams OM per grams soil

b. Convert soil carbon concentration (SoilCC) to carbon density.

SC=SoilCC\*BD, where

SC=Soil carbon density in units of grams carbon per cubic centimeter (g/cm3)

c. Soil carbon accretion rate (SCrate) was calculated from soil C content and accretion rate.

SCrate=SC\*1000000\*AccRate/1000; where SC=Soil carbon density in units of grams carbon per cubic centimeter (g/cm3), AccRate=mm/yr

SCrate\_unit= gC\_m2;

