1. The original Soil C pool data was calculated from bulk density and organic matter.

***[Response from Blanca]*** *Same excel attached (“Sedimentation raw data\_Neubauer.xls”). See tab "all sites", it is the average of (L46:L52) divided by 2. Looks like Scott had the raw data of this paper as well.*

According to the response from Blanca, we found that this paper does not report carbon density directly. We calculated carbon density from OM content and bulk density, but not carbon concentration. 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 (OM% data was from Fig. 3).

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)

Soil C rate data was calculated as:

SC rate = SC \* accumulation rate\*10000; (accumulation rate data was from Fig. 5)



