1. Soil C pool data was calculated from Bulk density and Carbon concentration

Bulk density data was from Table 1. (page 177)

The paper does not report carbon density directly. We calculated carbon density from TEXT (see below), which reported percent organic matter 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.

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

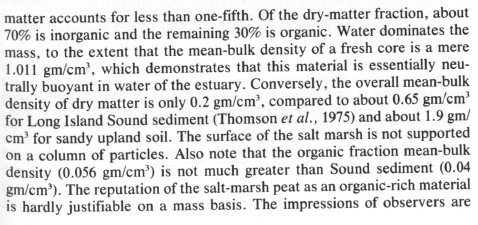
SoilCC = C concentration in units of grams C per grams soil

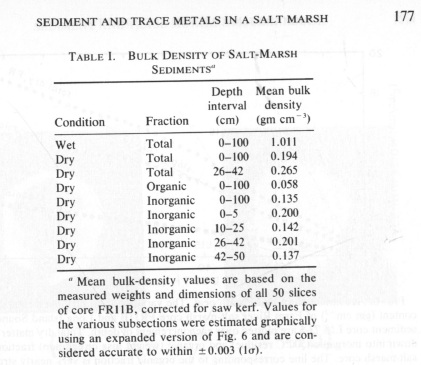
OM = organic matter concentration in units of grams OM per grams soil

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 concentration data was from IV (page 187)

