

Supplementary Figures

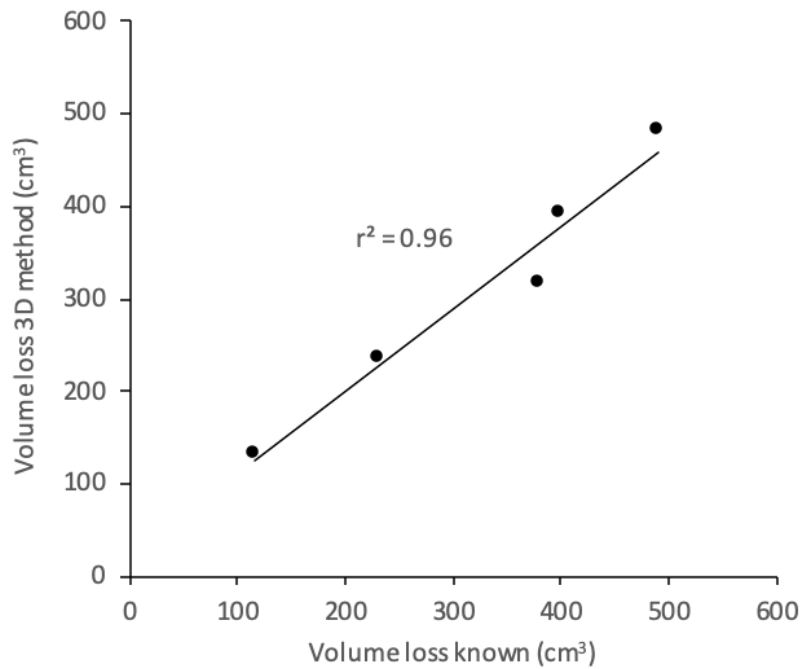


Figure S1. The accuracy of the sediment erosion method in the flume was tested by creating five 3D reconstructions in which the volume loss was known. These known volume losses were plotted against the estimated volume losses measured using the 3D reconstruction showing a high correlation coefficient ($r^2 = 0.96$, $p < 0.01$).

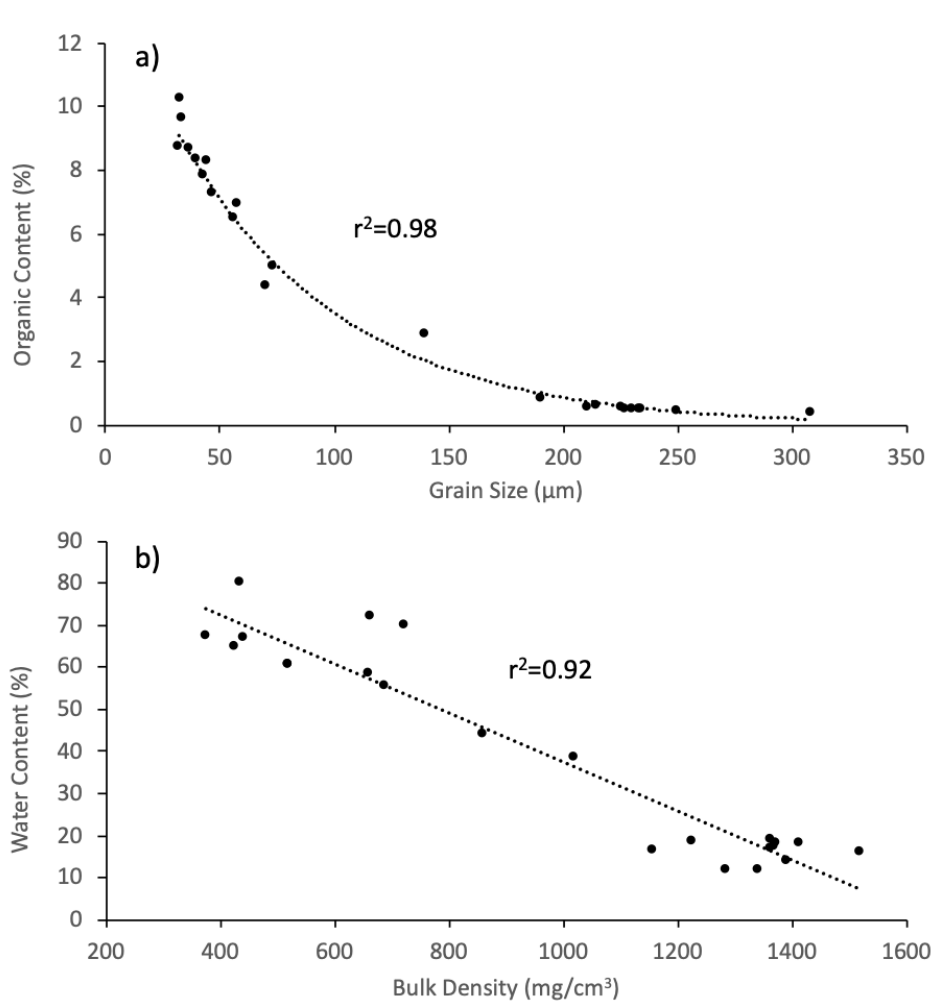


Figure S2. Sediment composition of samples tested in the flume. (a) Correlation between sediment organic content and sediment median grain size, D_{50} . (b) Correlation between the sediment water content and sediment bulk density.