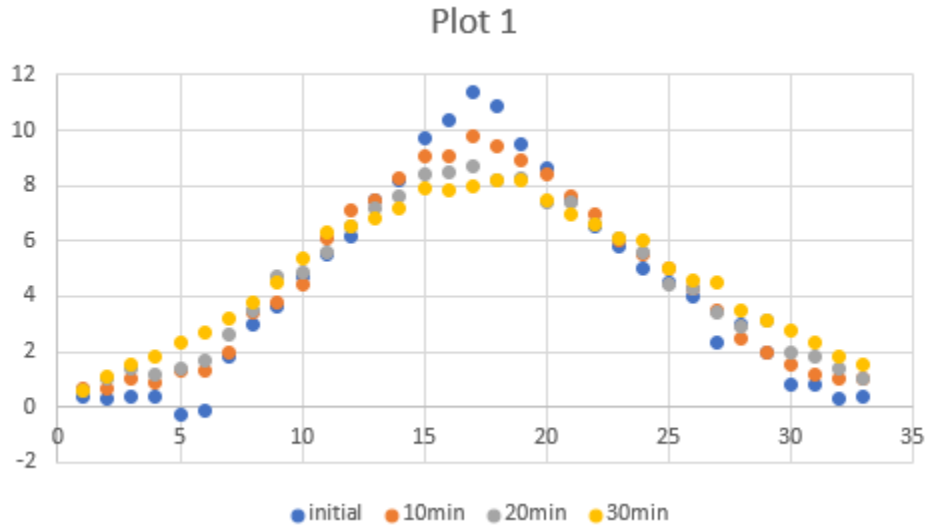
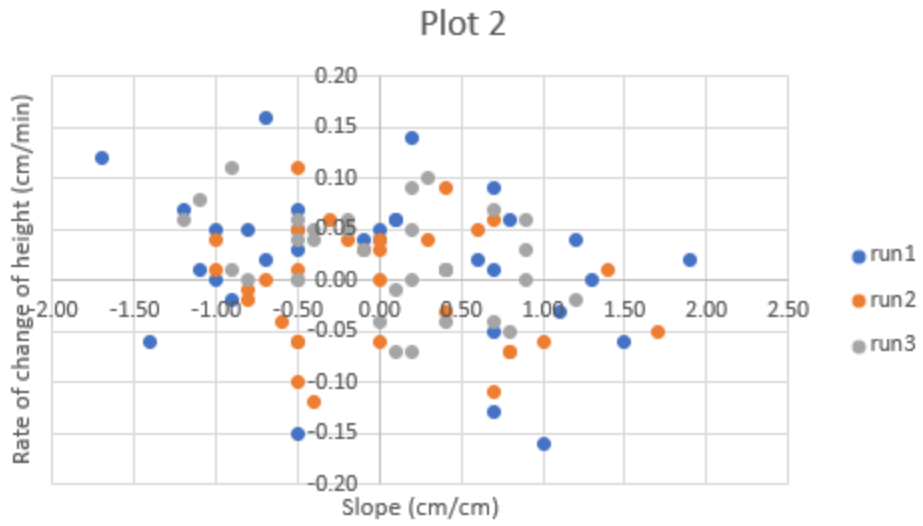
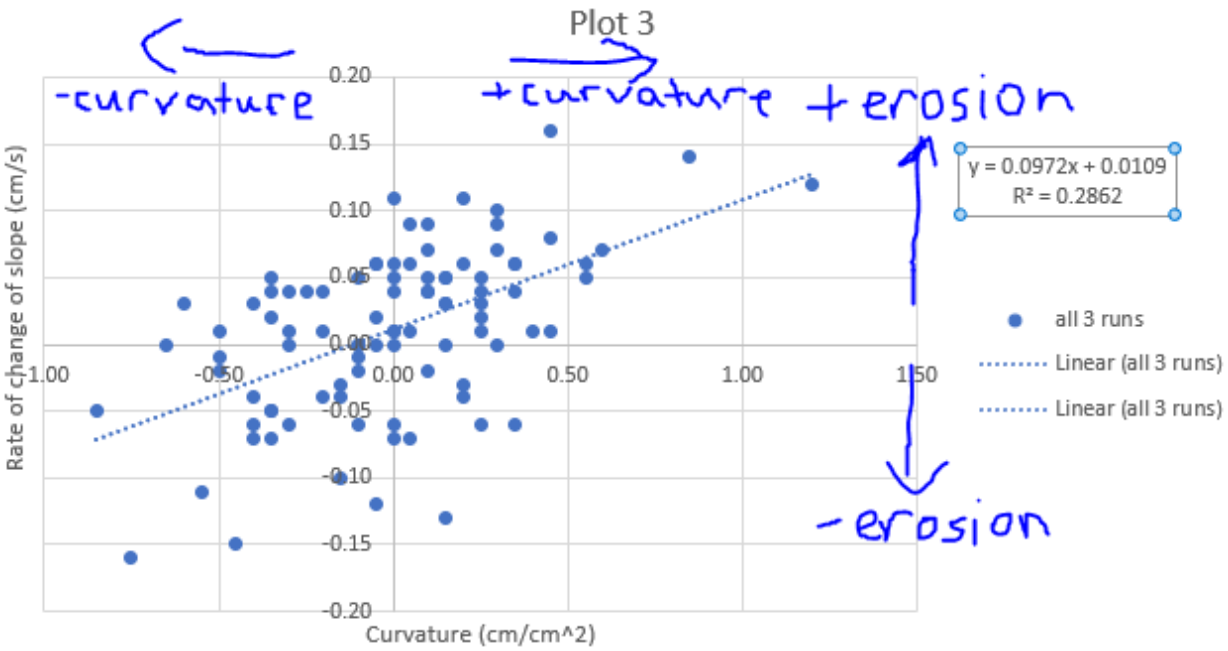
1. m^2/s
2. Diffusivity = k erosion=delz/delt curvature= deldelz/delx/delx
3. Topmost point
4. Being carried by the water?
5. Less than 1 cm each raindrop, but they keep coming.
6. 5.23e-10 M3, 5.23e-7 kg, 4.2e-6 J
7. 2.41 M
8. No, because of the direction to which the sand is pushed.
9. 

10. They changed the most from the first 10 minutes, because the slope was highest earliest in the experiment.


Plot 2
Rate of change of height (cm/min)
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
-2.00
-1.50
-1.00
-0.50
0.00
0.50
1.00
1.50
2.00
2.50
Slope (cm/cm)
run1
run2
run3


Plot 3
-curvature
+curvature +erosion
Rate of change of slope (cm/s)
0.20
0.15
0.10
0.05
0.00
-0.05
-0.10
-0.15
-0.20
1.00
-0.50
0.00
0.50
1.00
1.50
Curvature (cm/cm^2)
y = 0.0972x + 0.0109
R² = 0.2862
all 3 runs
Linear (all 3 runs)
Linear (all 3 runs)
-erosion

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