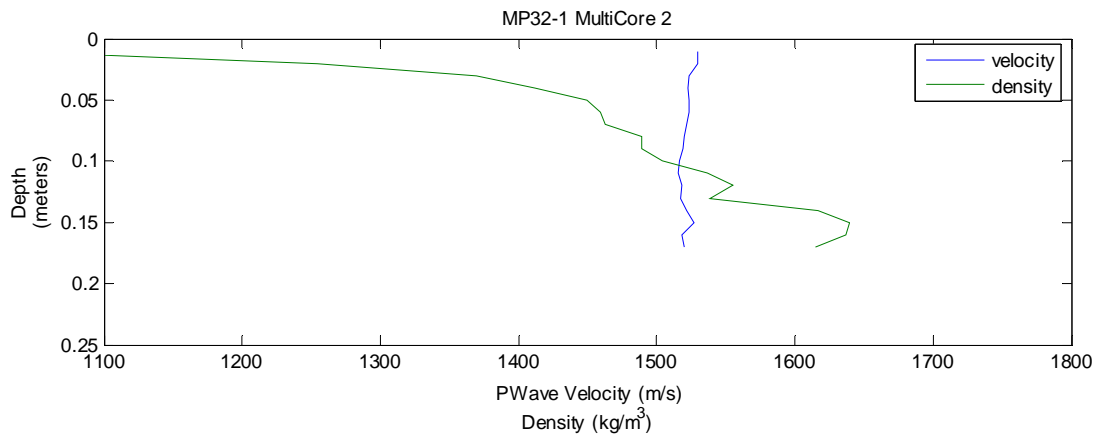
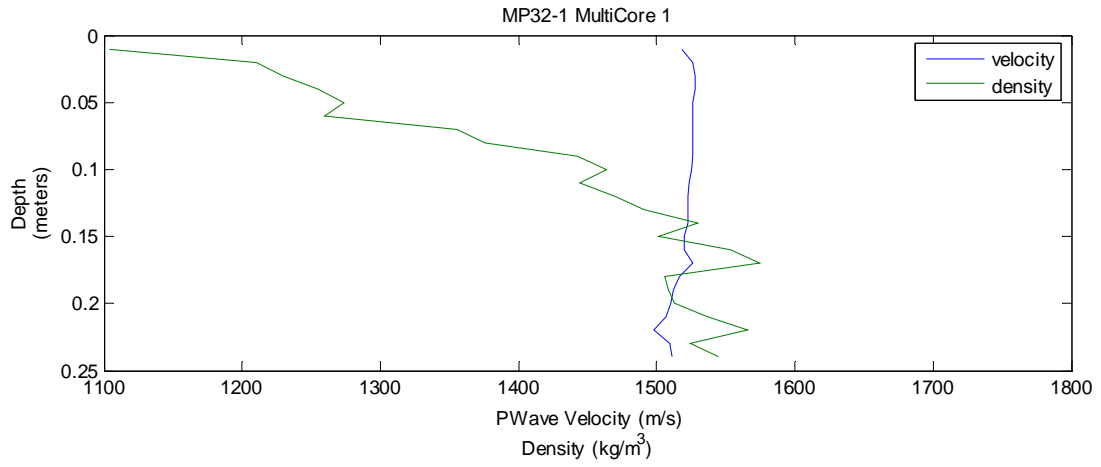
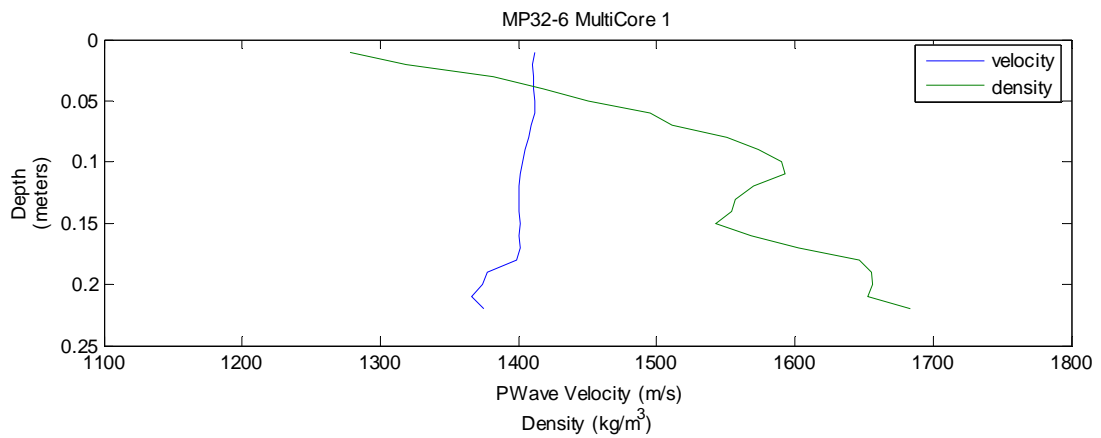
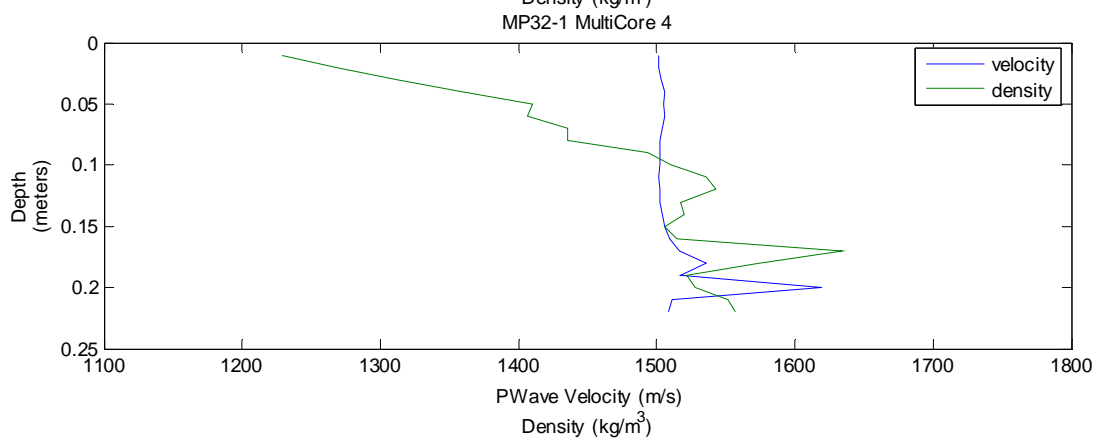
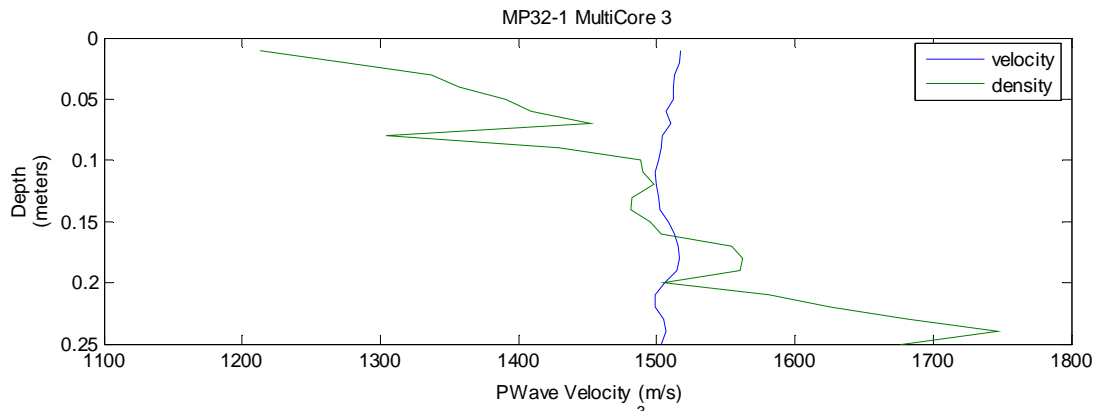


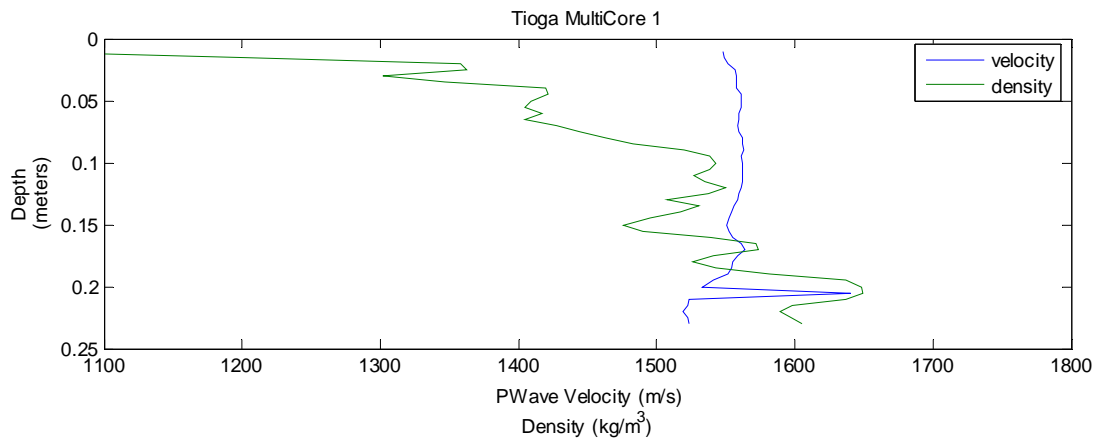
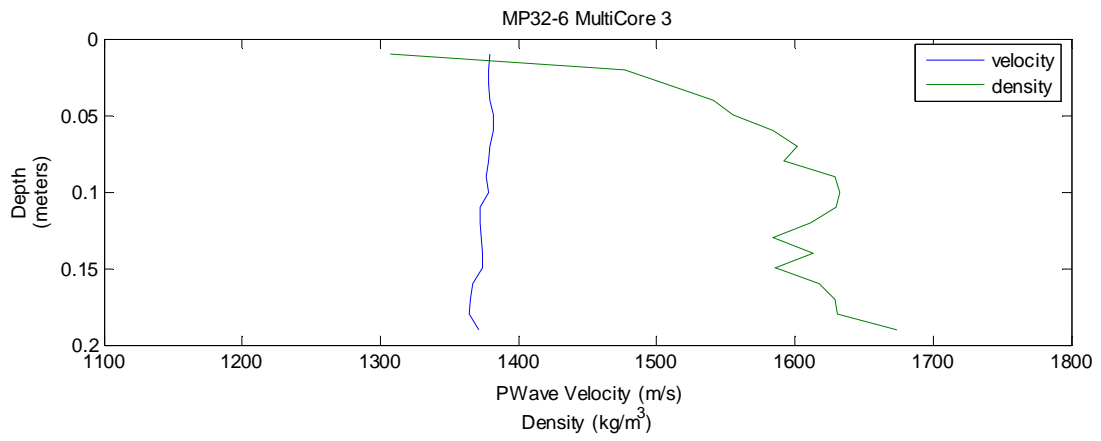
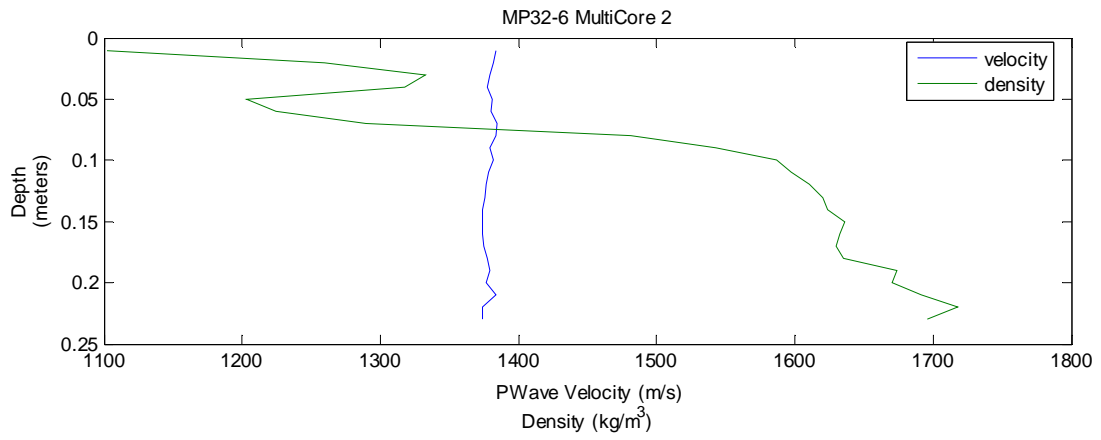
Breaks in the data are at the interfaces of core sections.

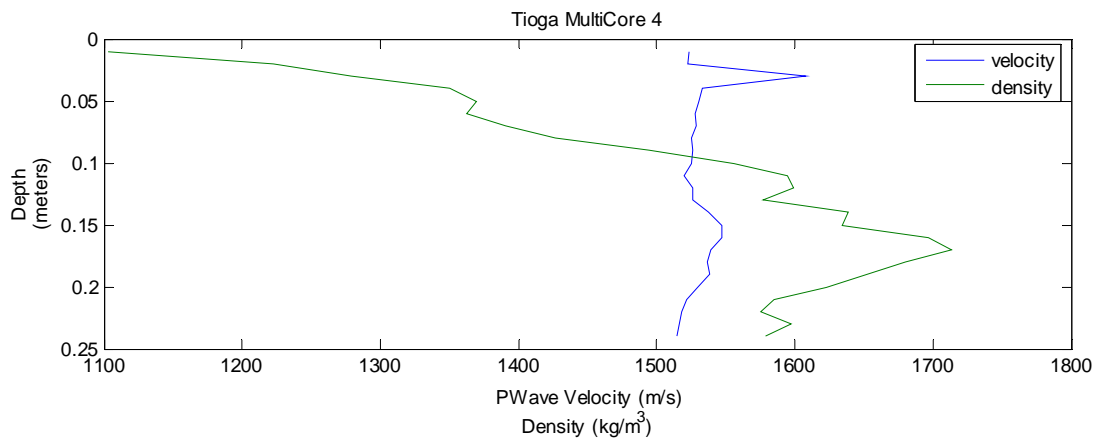
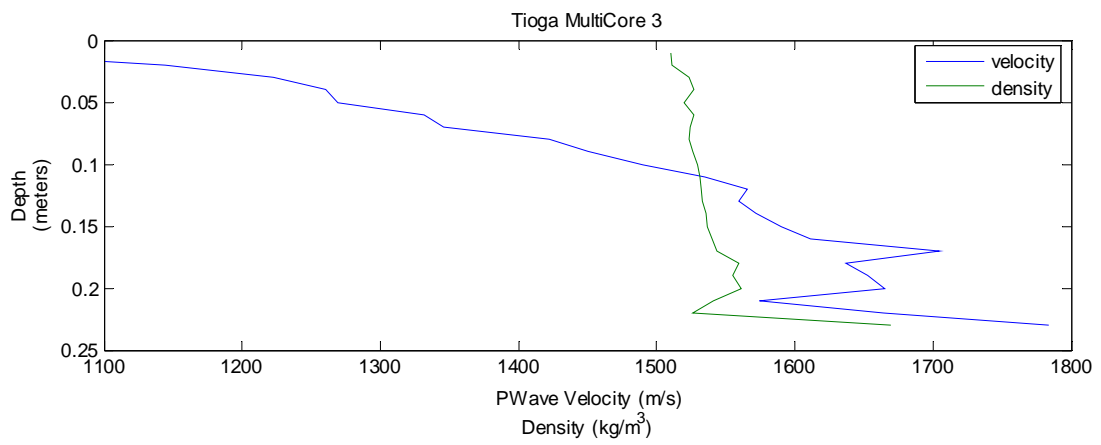
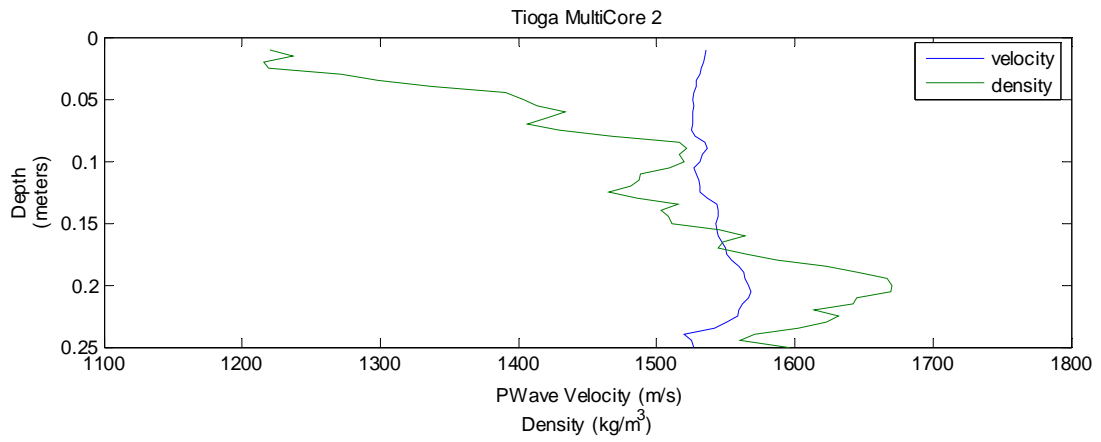
Geoacoustic Properties of the MultiCores:

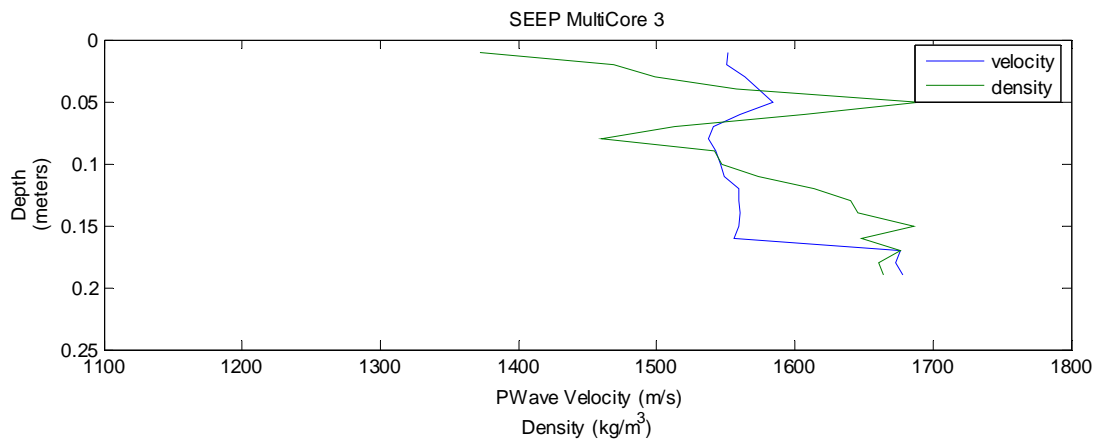
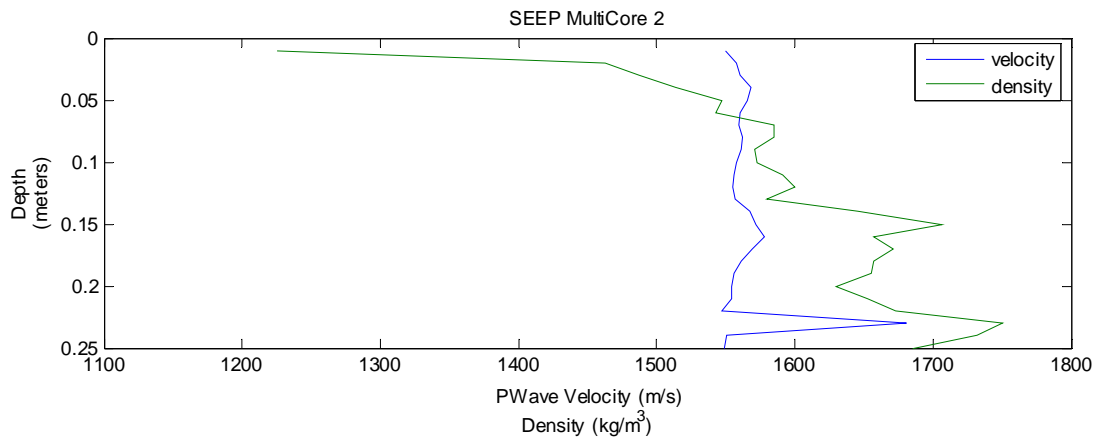
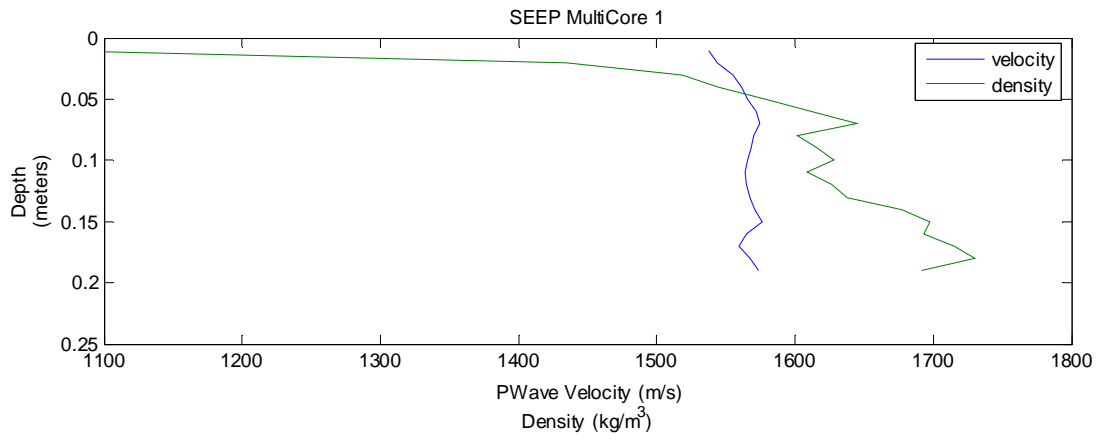
Velocity and Density











Fractional Porosity

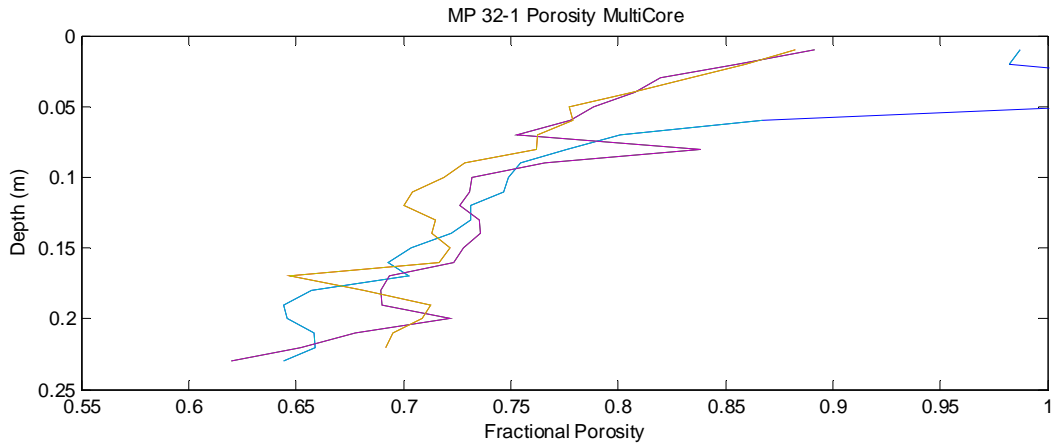


Figure X. Fractional porosity with depth within MultiCores for the MP_32_1 site.

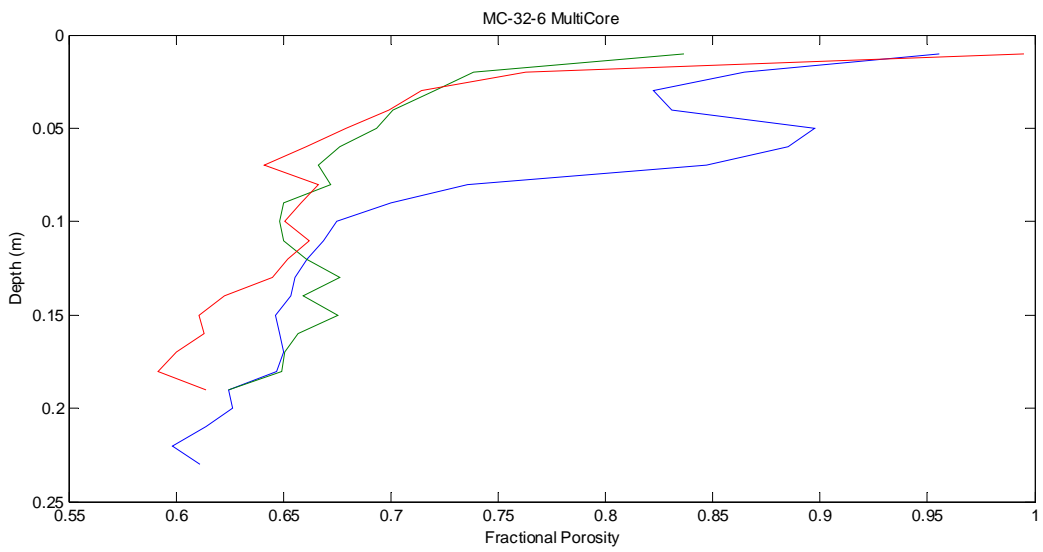


Figure X. Fractional porosity with depth within MultiCores for the MP_32_6 site.

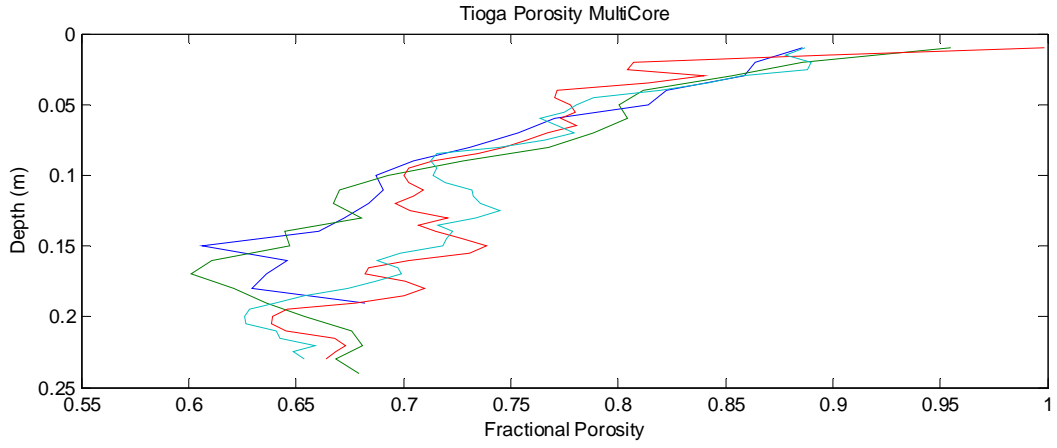


Figure X. Fractional porosity with depth within MultiCores for the Tioga Site, which is outside the Mud Patch Box.

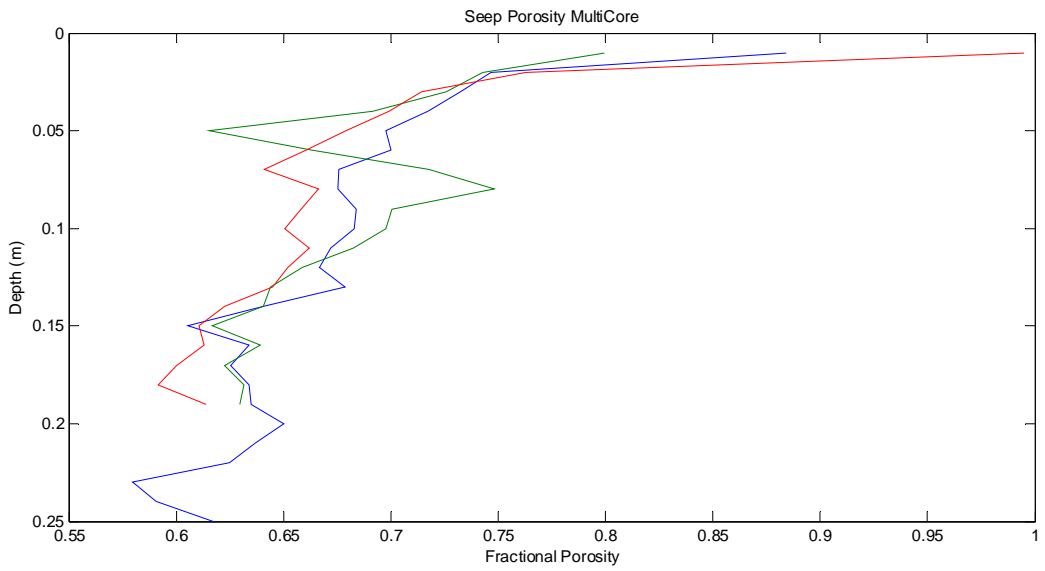
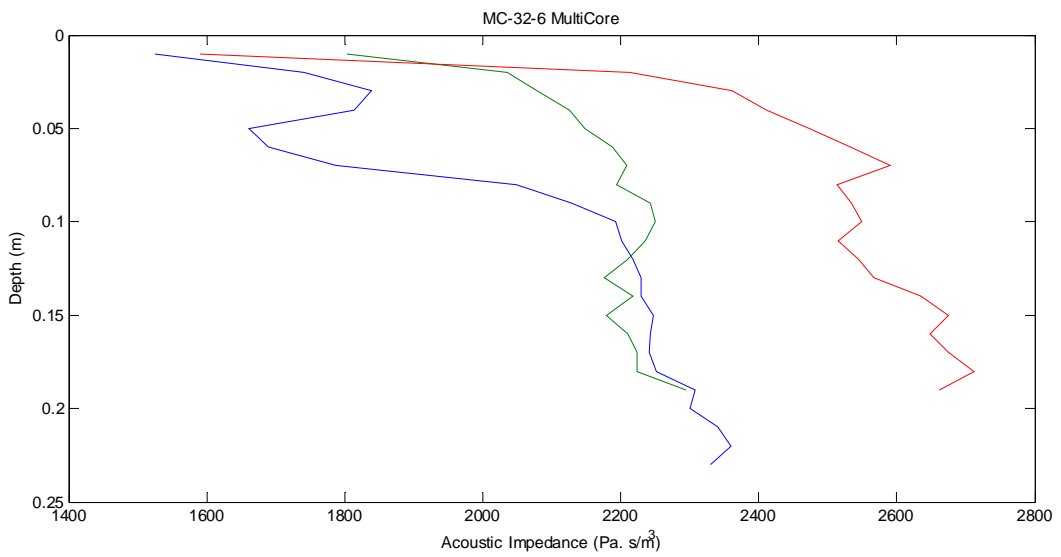
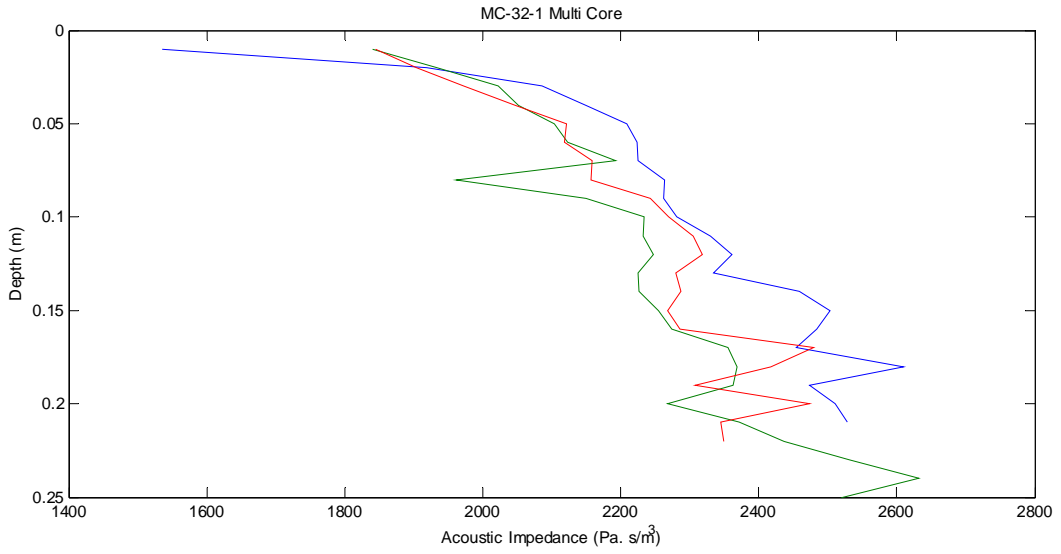
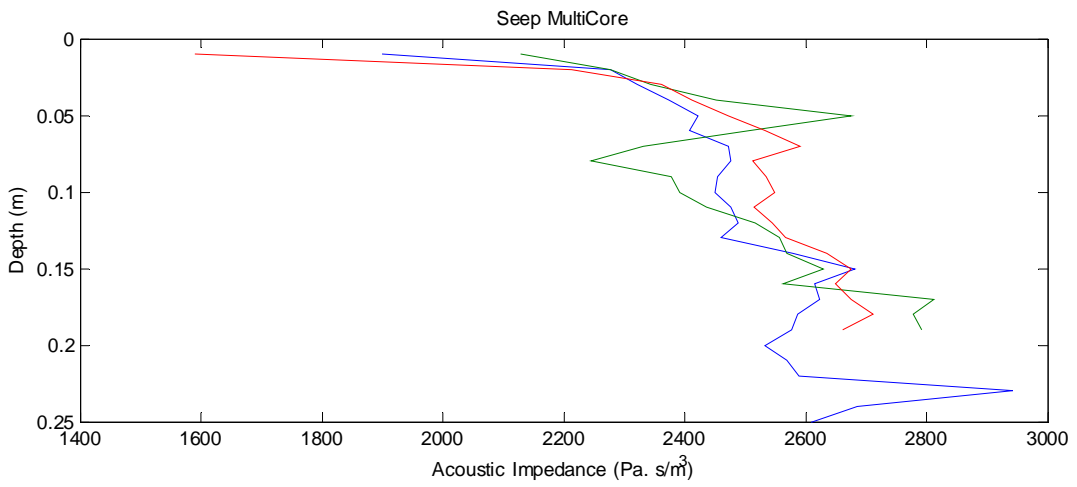
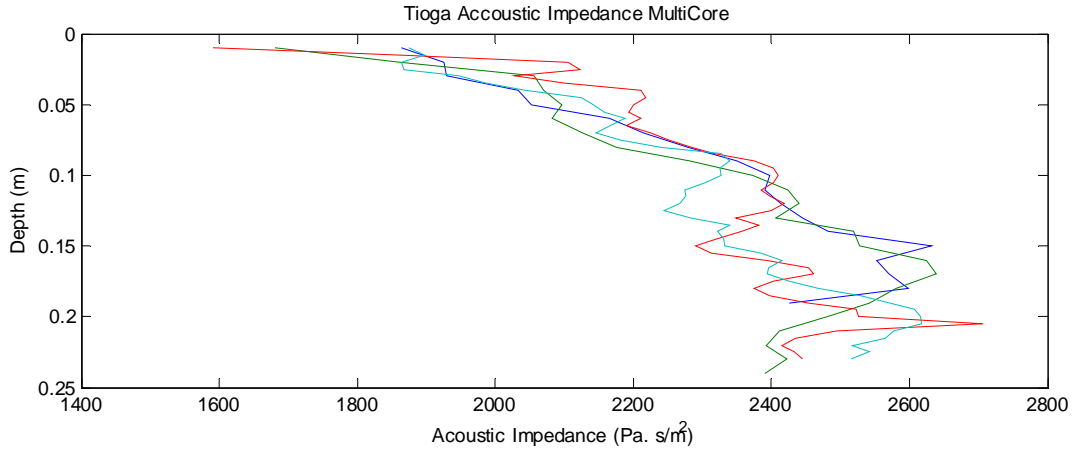
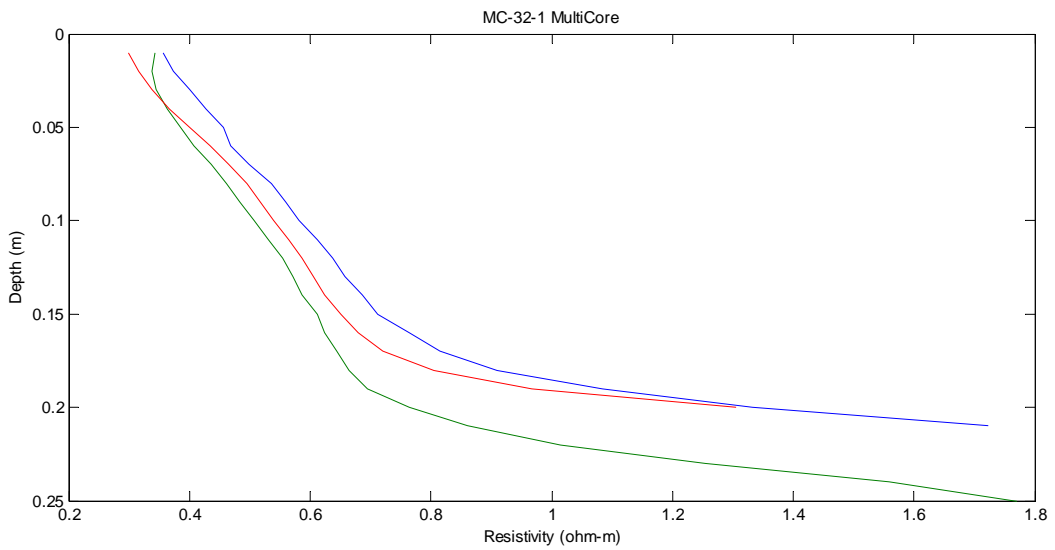


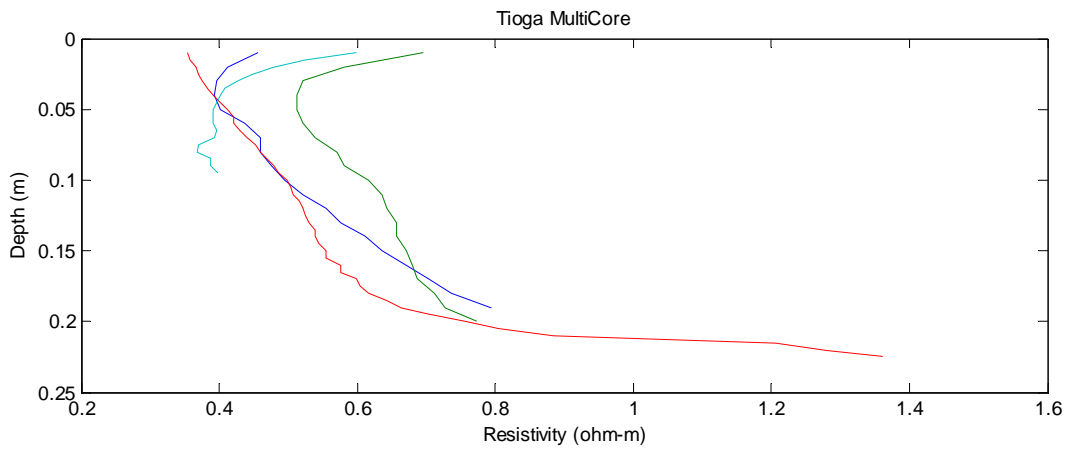
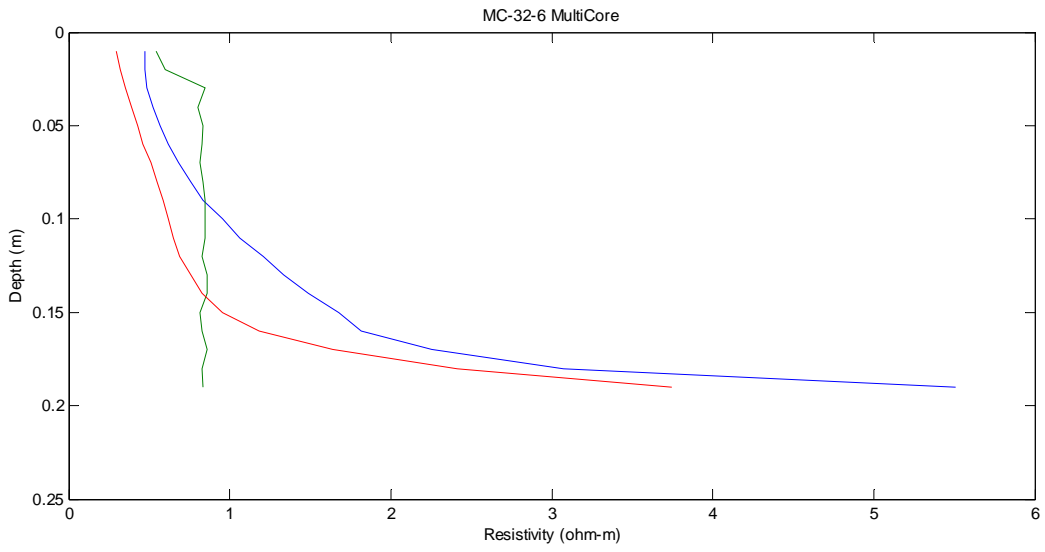
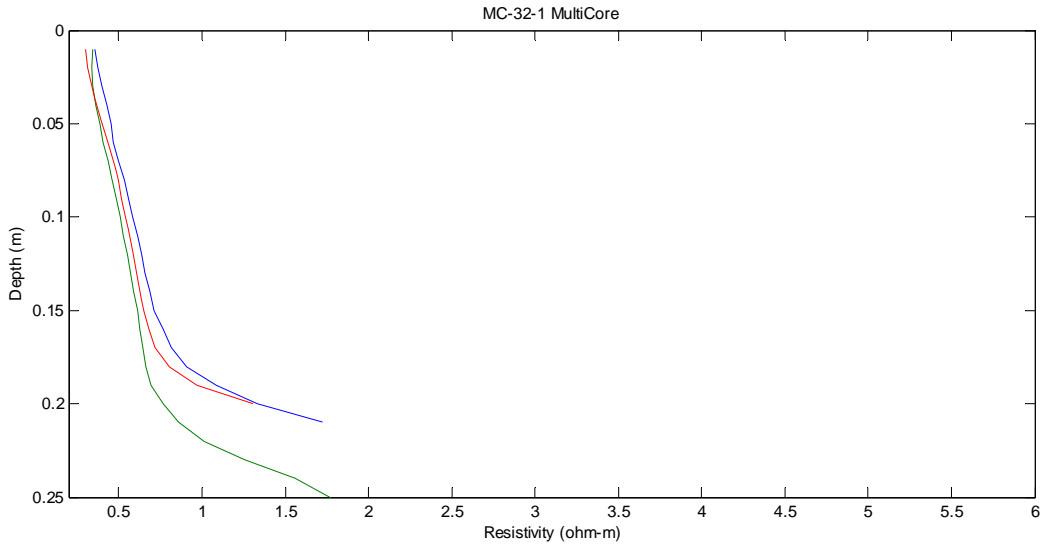
Figure X. Fractional porosity with depth within MultiCores for the Seep Site.

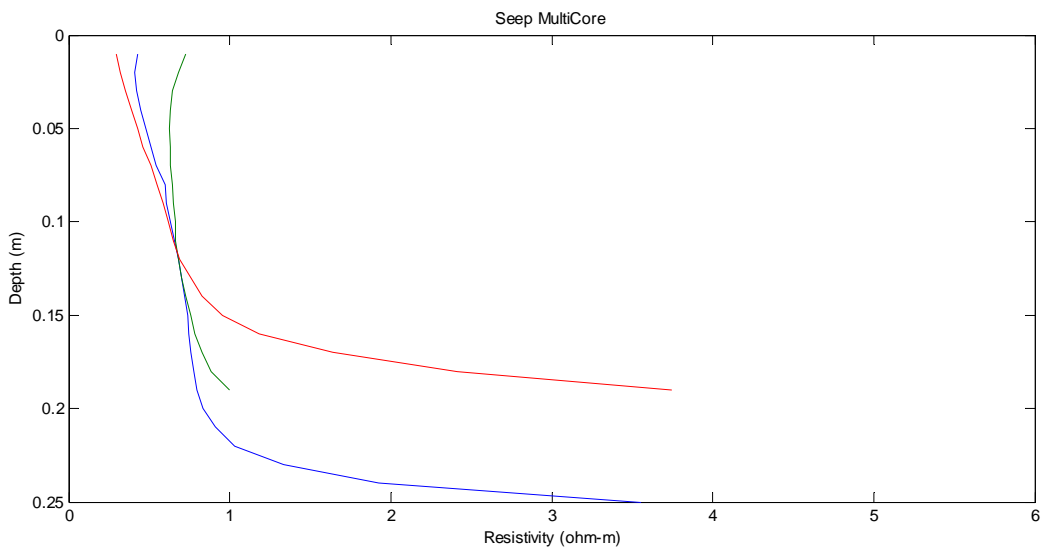
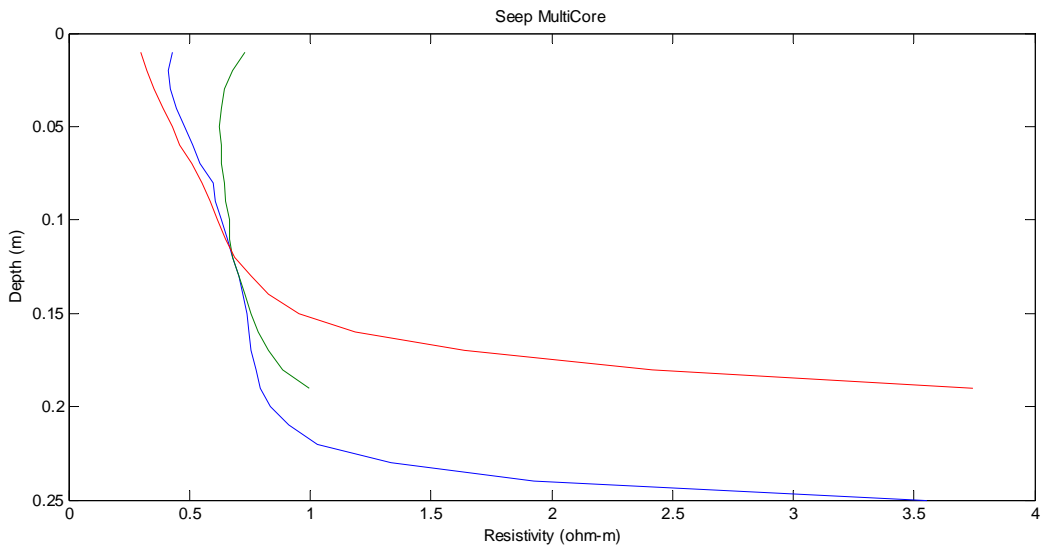




Electrical Resistivity in MultiCores





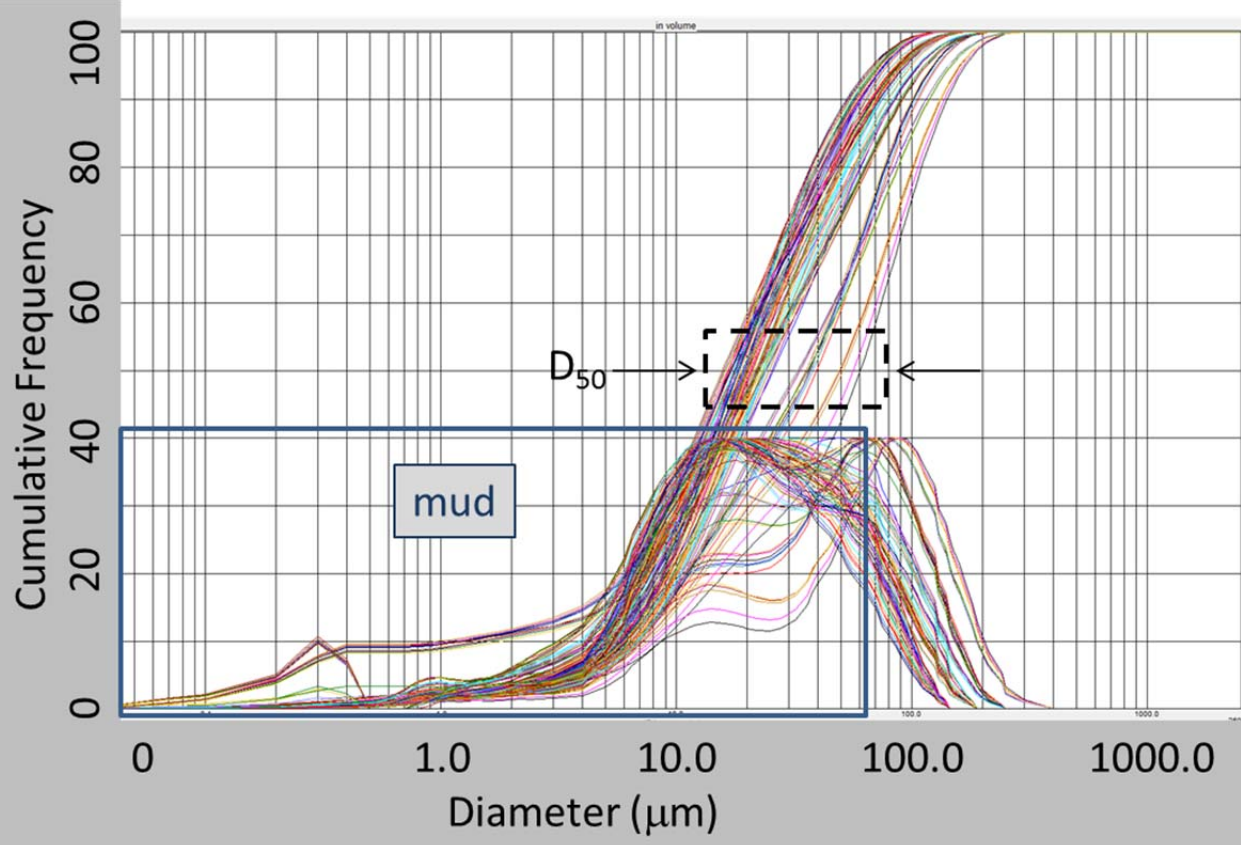


Further Considerations:

Grain size in surficial samples was determined to be mud, a mixture of silt and clay sized materials. The base of the cores was also evaluated. In some of these samples, shell hash, a mixture of disarticulated bivalves, fracture bivalve shell and gastropod shell, all of which were heavily worn, were found. The condition of these shells indicates they were transported into the area from another location.

Silty mud cores from the New England Mud Patch "Box" in Figure 1.

No	Core Sample	Core Location	D ₅₀ (μm)	± 1 s.d.	Depth (cmbsf)
1	Tioga_1 [#]	Top	37.1	1.556	0-1
2	Tioga_1 [#]	Bottom	16.3	0.536	1
3	mp32-8L	Top	18.8	1.426	0-1
4	mp32-8L	Bottom	19.4	0.953	
5	ISO-1	Top	22.8	0.843	0-1
6	ISO-1	Bottom	19.7	3.414	
7	ISO-4	Top	20.6	0.909	0-1
8	ISO-4	Bottom	18.3	2.306	
9	ISO-7	Top	34.4	1.936	0-1
10	ISO-7	Bottom	21.1	1.677	
11	MC_Seep*	Top	16.9	0.586	0-1
12	MC_Seep*	Bottom	22.7	0.909	23-24
13	SAM5	Top	24.3	0.790	0-1
14	SAM5	Bottom	18.7	0.987	
15	mpd02-7	Top	53.4	4.892	0-1
16	mpd02-7	Bottom	19.5	1.645	
From gravity cores, except for MC* which is a multi-core sample					
* MC_Seep samples were collected with a multi-core					
[#] Tioga_1 is outside of the Survey Box to the west					



Tioga 1 – Base of Core
(@core catcher)



MP32-3_1 Core Catcher



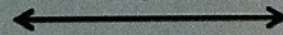
MP32-4_1 Core Catcher



MP32-7_1 Core Catcher



4 cm



```

function createfigure(X1, Y1, X2)
%CREATEFIGURE(X1,Y1,X2)
% X1: vector of x data
% Y1: vector of y data
% X2: vector of x data

% Auto-generated by MATLAB on 05-Apr-2016 16:18:09

% Create figure
figure1 = figure;

% Create axes
axes1 = axes('Parent',figure1,'YDir','reverse');
% Uncomment the following line to preserve the X-limits of the axes
% xlim([1250 1800]);
box('on');
hold('all');

% Create plot
plot(x1,y1,'Parent',axes1,'Color',[0 0 1],'DisplayName','velocity');

% Create plot
plot(x2,y1,'Parent',axes1,'Color',[0 0.498 0],'DisplayName','density');

% Create xlabel
xlabel({'PWave Velocity (m/s)','Density (kg/m^3)'});

% Create title
title({'MP32-6 MultiCore 3'});

% Create ylabel
ylabel({'Depth','(meters)'});

% Create legend
legend1 = legend(axes1,'show');
set(legend1,'Position',[0.7854 0.8013 0.1057 0.09211]);

```