Elevation Data

This shows how the elevation of the marsh changed along the transect. Use a ruler to plot the data points for your assigned marsh along the x-axis on the large graph provided, using a scale of 1 cm elevation change in the marsh = 1 mm on paper. Once you have the points plotted, use the ruler to connect the dots. Make sure your graph is appropriately labeled.

Newtown Beach Marsh	
Meter #	Elevation
1	-10
2	24
3	32
4	38
5	31
6	36
7	-14
8	-14
9	-17
10	-20
11	-30
12	-30
13	-26
14	-19
15	-27
16	-24
17	-20
18	-15
19	-11
20	-9
21	-6
22	-4
23	-1
24	-1
25	3
26	4
27	6
28	7
29	9
30	10
31	12
32	13
33	16
34	19
35	19
36	20
37	22
38	28

Big Marsh	
Meter #	Elevation
1	
2	6
3	7
4	11
5	11
6	14
7	17
8	21
9	21
10	23
11	25
12	28
13	31
14	33
15	37
16	38
17	39
18	43
19	45
20	48
21	50
22	54
23	55
24	56
25	58
26	61
27	62
28	63
29	65
30	68
31	72
32	76
33	78
34	79
35	83
36	85
37	87
38	87

Peat Depth

This shows how the depth of the peat layer in the marsh changed along the transect. Use a ruler to plot the data points for your assigned marsh below the x-axis on the large graph provided, using a scale of 1 cm elevation change in the marsh = 1 mm on paper. Once you have the points plotted, use the ruler to connect the dots. Make sure your graph is appropriately labeled.

Newtown Beach Marsh	
Meter	Peat Depth (cm)
0	0
1	-10
2	-118
3	-126
4	-200
5	-200
6	-43
7	-175
8	-200
9	-170
10	-200
11	-200
12	-200
13	-180
14	-185
15	-196
16	-169
17	
18	-58
19	-120
20	-154
21	-74
22	-137
23	-137
24	
25	
26	
27	
28	-80
29	
30	-95
31	
32	-61

Big Marsh	
Meter	Peat Depth (cm)
0	-68
1	-128
2	-150
3	-154
4	-94
5	-91
6	
7	-135
8	
9	-86
10	
11	-141
12	
13	-137
14	
15	-200
16	
17	-200
18	
19	-200
20	
21	-200
22	
23	-170
24	
25	-190
26	
27	-158
28	
29	-186
30	
31	-200
32	
33	-200
34	
35	-200

Marsh Animals

This shows how many animals of each type were found at each location along the transect. For your assigned marsh, figure out a way to represent these numbers along the graph above the elevation data. Suggestion: draw each animal at the appropriate location along the transect (x-axis) and then write a number next to it to indicate how many were there. Alternatively, draw the animal the indicated number of times. Make sure that you include a key or text so viewers understand what your drawings mean

Newtown Beach Marsh				
Meter #	Coffee Bean	Ribbed Mussels	Spiders	Bugs
0	0	2	0	0
5	1	0	0	2
10	4	4	0	0
15	0	1	4	0
20	5	10	2	0
25	9	8	2	0
30	7	0	0	0

Big Marsh			
Meter	Coffee Bean	Ribbed Mussels	Crabs
0	2	3	3
2	0	1	0
4	0	1	1
6	0	0	3
8	3	2	1
10	6	2	1
12	1	3	2
14	1	6	0
16	3	7	0
18	0	1	1
20	2	0	0
22	0	1	0
24	4	2	3
26	0	1	0
28	0	1	0
30	0	2	0
32	0	3	0

Marsh Plants

This shows plant cover and the types of plant found at each location along the transect. For your assigned marsh, figure out a way to represent these numbers along the graph above the elevation data. Suggestion: Use a different color for each plant, and represent the percentages either by writing them, or by drawing something like a small pie chart. Make sure that you include a key so viewers understand what your drawings mean.

Newtown Beach Marsh					
Meter	Total Plant Cover	% Salt Meadow Cordgrass	% Saltwater Cordgrass	% Pickleweed	% Salt marsh aster
2	80	60	20		
4	60	40	0	19	1
6	100	98	0	2	
8	100	70	30		
10	74	74	0	1	
12	50	50	0		
14	100	100	0		
16	100	100	0		
18	100	100	0		
20	100	100	0		
22	50	50	0		
24	50	50	0		
26	10	10	0		
28	55	55			
30	100	100			
32	50	50			
34	30	25	5		
36	48	30	18		

Big Marsh						
Meter	Total Plant Cover	% Salt Meadow Cordgrass	% Salt Water Cordgrass	% Sea Lavender	% Pickleweed	% Spike Grass
1	100	25	35			10
2	80	80	0	10	0	
3	70					
4	100	80		10	5	5
6	100	50			50	
8	100	90	8		1	1
10	100	100				
12	100	100				
14	100	100				
16	100	100				
18	100	100				
20	100	98			2	
22	100	100				
24	90	90				
26	100	100				
28	90	90				
30	90	90				
34	100	100				
36	100	100				

Water Chemistry

The water chemistry information below was gathered at three locations on the marsh at Newtown Beach. Location along the transect was not recorded, but you can assume that the marsh edge is at meter #0, the lower marsh is in the middle of the transect, and the upper marsh is at the end of the transect. Figure out a way to add this information to your graphs.

	Temp (˚C)	Salinity	pH	Dissolved Oxygen
Marsh edge (open water)	18	15	8.5	8
Lower Marsh	14	21	6.5	5
Upper marsh	15	17	<6.5	4