

Salt Pond Watchers' Data Management Protocol

Appendix C.

Examples of graphs and working files for generating graphs

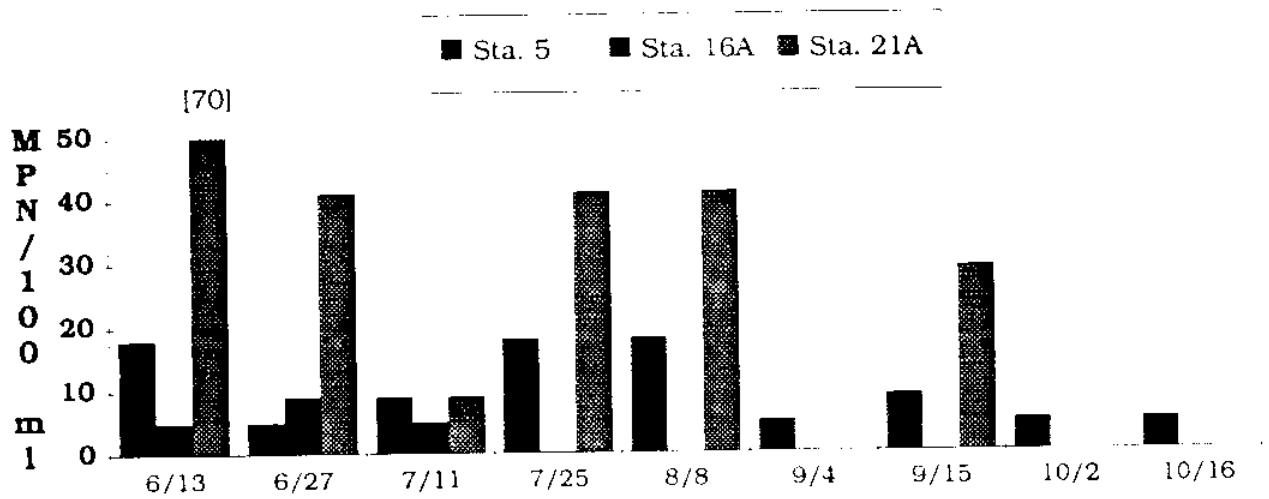
1. grph wkst bact 91: Example of "Excel" file used in graphing bacteria data. The raw data files were copied, "Pasted" and cut to make the block of cells (shaded area) which was copied to plot the chart "Bacteria plot example"
2. Bacteria Plot Example: An "Excel" column chart showing a year of bacteria data for one pond
3. Updated PJ H20 91: An "Excel" file containing water chemistry data. The shaded blocks of cells were used to plot "Nitrate Plot Example" and "PJ 1 Secchi Plt"
4. Nitrate Plot Example: An example of column graph of water chemistry data in "Excel"
5. PJ 1 Secchi Plt: An example of an "Excel" line chart of Secchi dish depth and pond depth at one station, using depth as negative numbers. Note that the scale numbers are on the wrong side of the x-axis. This could not be changed in "Excel" but was changed when graphs were copied into "MacDraw"
6. Chl a for Secchi Plt. This line chart was intended to be copied into MacDraw II.1 and added to "PJ 1 Secchi Plot." Note that the y-axis will be moved to the right end of the graph in "MacDraw."
7. Sample graphs, drawn in "Excel 3.0," modified with MacDraw 1.1. Numerous changes were made to improve the uniformity and clarity of the graphs:

1. **grph wkst bact 91: Example of "Excel" file used in graphing bacteria data. The raw data files were copied, "Pasted" and cut to make the block of cells (shaded area) which was copied to plot the chart "Bacteria plot example"**

	A	B	C	D	E	F	G	H
1	BACTERIA	PJ, PT, GH, NH, OH, WN						
2	POND	STATION	DATE	MPN/100ML				
3	PJ	5						
4	PJ	5						
5	PJ	5						
6	PJ	5						
7	PJ	5						
8	PJ	5			(*BOB*)			
9	PJ	16A	13-Jun					
10	PJ	16A	27-Jun					
11	PJ	16A	11-Jul					
12	PJ	16A	25-Jul					
13	PJ	16A	8-Aug					
14	PJ	16A	22-Aug		(*BOB*)			
15	PJ	21A	13-Jun					
16	PJ	21A	27-Jun					
17	PJ	21A	11-Jul					
18	PJ	21A	25-Jul					
19	PJ	21A	8-Aug					
20	PJ	21A	22-Aug		(*BOB*)			
21								
22	date	Sta. 5	Sta. 16A	Sta. 21A				
23	6/13	18	9	70				
24	6/27	8	9	41				
25	7/11	8	8	8				
26	7/25	18		41				
27	8/8	18		41				
28	8/14	8						
29	8/18	8		29				
30	10/12	8						
31	10/18	8						
32								
33	POND	STATION	DATE	MPN/100ML				
34	PT	23	13-Jun					
35	PT	23	27-Jun					
36	PT	23	11-Jul					
37	PT	23	25-Jul					
38	PT	23	8-Aug					
39	PT	23	22-Aug		(*BOB*)			
40	PT	24	13-Jun					
41	PT	24	27-Jun					
42	PT	24	11-Jul					
43	PT	24	25-Jul					
44	PT	24	8-Aug					
45	PT	24	22-Aug		(*BOB*)			
46	PT	26	13-Jun					
47	PT	26	27-Jun					
48	PT	26	11-Jul					
49	PT	26	25-Jul					
50	PT	26	8-Aug					
51	PT	26	22-Aug		(*BOB*)			
52	PT	28						
53	PT	28						
54	PT	28						
55	PT	28						
56	PT	28						
57	PT	28			(*BOB*)			
58								
59	date	STATION 23	STATION 24	STATION 26	STATION 28			
60	13-Jun	18	9	29	54			
61	27-Jun	4.5	9	4.5				
62	11-Jul	4.5	9	9	4.5			
63	25-Jul	89		179	18			
64	8-Aug	29		9	9			
65	22-Aug							
66								
67	POND	STATION	DATE	MPN/100ML				
68	GH	14C	13-Jun					
69	GH	14C	27-Jun					
70	GH	14C	11-Jul					
71	GH	14C	25-Jul					
72	GH	14C	8-Aug					
73	GH	14C	22-Aug		(*BOB*)			
74	GH	18	13-Jun					
75	GH	18	27-Jun					
76	GH	18	11-Jul					

2. **Bacteria Plot Example: An “Excel” column chart showing a year of bacteria data for one pond**

Point Judith Bacteria, 1991

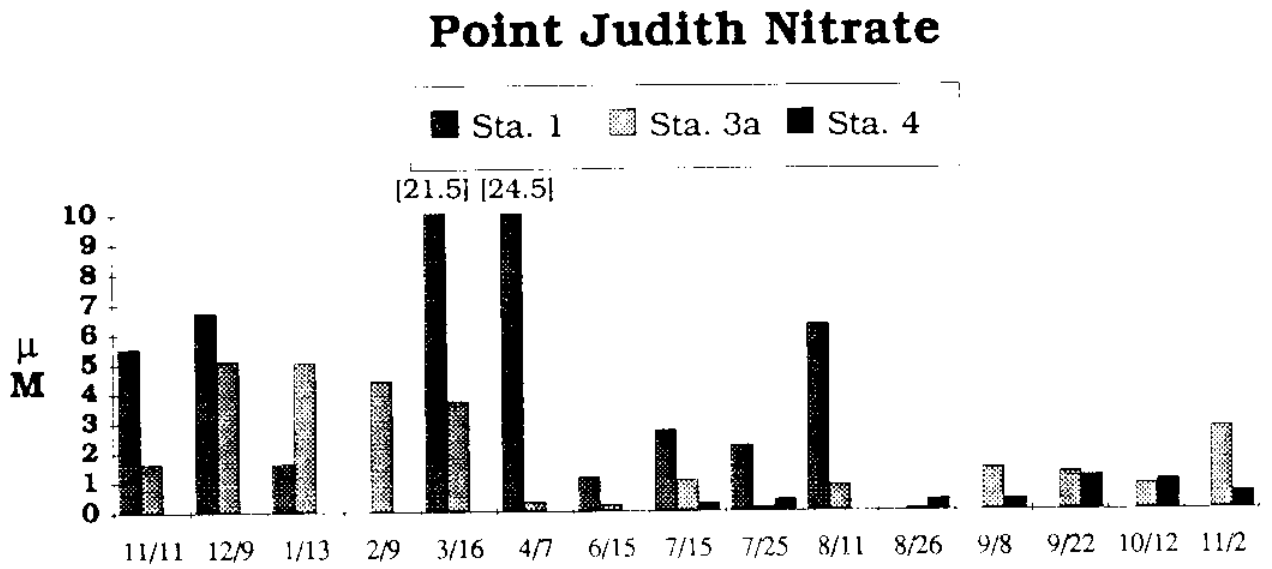


3. Updated PJ H20 91: An "Excel" file containing water chemistry data. The shaded blocks of cells were used to plot "Nitrate Plot Example" and "PJ 1 Secchi Plt"

	T	U	V	W
1				
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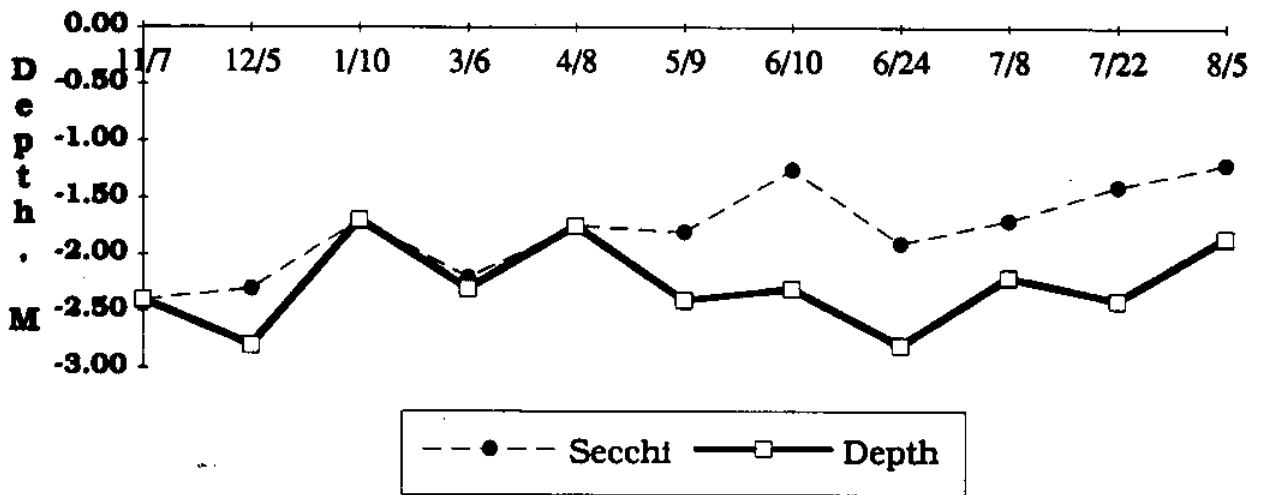
Chi s for Secchi Plot
 Chi s
 1/17 4
 1/2/5 5
 1/1/6 1
 3/8 1
 4/8 1
 5/9 7
 8/10 13
 9/24 6
 7/8 7
 7/22 9
 8/18 11

4. Nitrate Plot Example: An example of column graph of water chemistry data in "Excel"



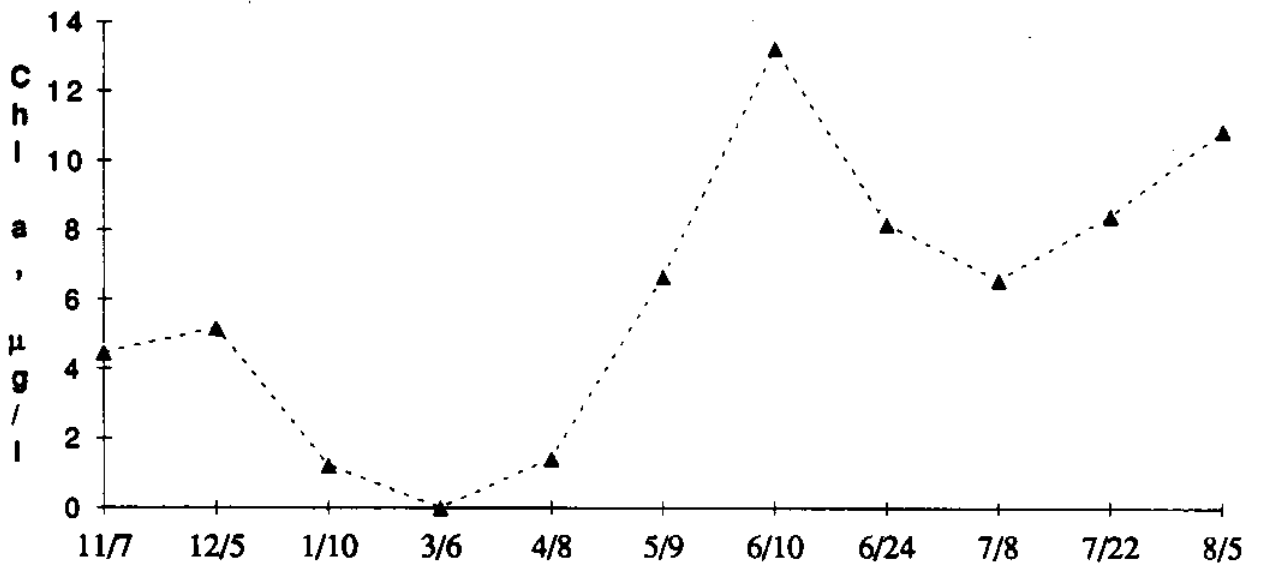
5. PJ 1 Secchi Plt: An example of an "Excel" line chart of Secchi dish depth and pond depth at one station, using depth as negative numbers. Note that the scale numbers are on the wrong side of the x-axis. This could not be changed in "Excel" but was changed when graphs were copied into "MacDraw"

Point Judith Pond Sta. 1, Secchi Disk Depth



6. Chl a for Secchi Plt. This line chart was intended to be copied into MacDraw II.1 and added to "PJ 1 Secchi Plot." Note that the y-axis will be moved to the right end of the graph in "MacDraw."

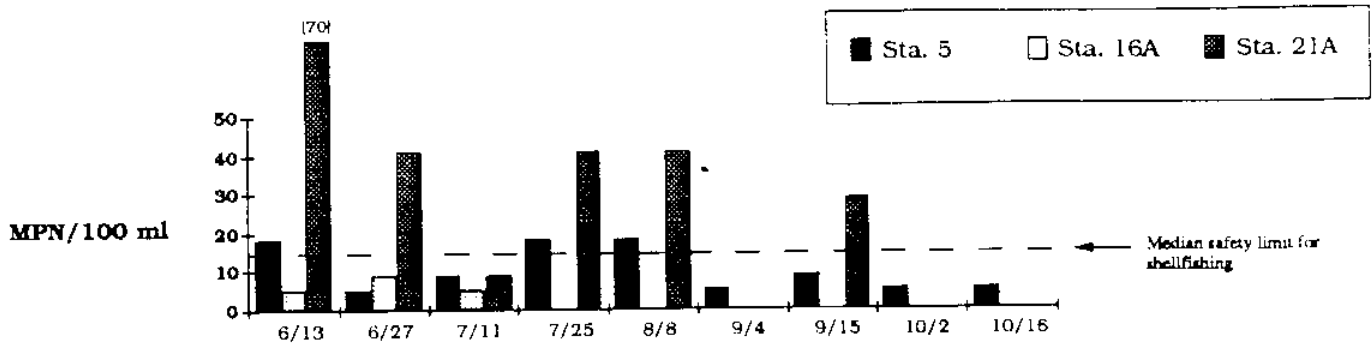
Chl for Secchi Plt



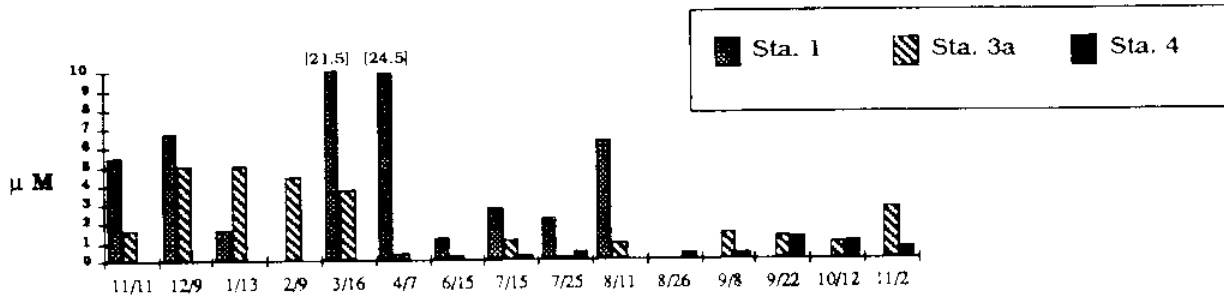
7. Sample graphs, drawn in "Excel 3.0," modified with MacDraw 1.1. Numerous changes were made to improve the uniformity and clarity of the graphs:
 - a. Graphs were stretched to cover more of the page. Temporary guidelines were used as measuring rods to make all the graphs a uniform length and height. A long guideline was used to align the axes. For the line "Secchi" graph, this stretched the symbols as well, so new circles and squares were drawn and used to replace the altered ones.
 - b. Bars which are above the upper limit of the scale show up to their full height when an "Excel" graph is copied into "MacDraw." The bars which were far offscale in the "Nitrate" graph were "pushed" down to the cutoff point of the scale, which was marked by a temporary guideline. The offscale bar in the "Bacteria" graph was left, since it was not far above the upper edge of the scale.
 - c. A dash line, arrow, and label was added to the "Bacteria" graph. Dashes and arrows are under the "Pen" menu in "MacDraw."
 - d. Legends at the tops of graphs were moved to the side to reduce clutter.
 - e. Graph titles and labels were altered, using the "Text" box in "MacDraw" in order to make the graphs more uniform.
 - f. "Chl a for Secchi Plt" was added to the "Secchi" graph after stretching it to fit and moving the y-axis.

Sample graphs, drawn in "Excel 3.0", modified with "MacDraw II.1"

Point Judith Bacteria, 1991



Point Judith Nitrate, 1991



Point Judith Pond Sta. 1, Secchi Disk Depth and Chlorophyll a concentration, 1991

