

[illegible]

```

55     sal          =    table2array(sal_table);
56     mbar         =    table2array(mbar_table);
57     temp         =    table2array(temp_table);
58     dmeter       =    table2array(dmeter_table);
59
60 % convert mbar to feet, incase you want to do that
61 % depth_feet = mbar.*0.033455256555148;
62
63 % convert meters to feet, in case you want to use the Mapping Toolbox
64 % deploy_feet = distdim(dmeter,'meters','feet'); %(needs Mapping Toolbox)
65 dfeet = dmeter.*3.28084; % I didn't want to use Mapping Toolbox
66
67 %% 3. TO FIND CORRECT START / STOP VALUES IN TIME
68     % FIND TIME VALUES IN THIS PLOT
69     % look in this plot to find where depth values start and stop
70     % this is what you will put in below, the (93:135), etc
71     % uncomment below --- 56-59
72     % n = length(mbar);
73     % time = 1:n;
74     % figure;
75     % plot(time,mbar);
76
77 %% 4. DEPLOY DATA PULLING
78     % take out only parts of the data for deployments
79     % this is the values found 'FIND DEPTH VALUE PLOT'
80     % if you have more or less than four, change it
81
82     % ONE
83     deploy1_EC      =    EC        (93:135,1);
84     deploy1_TDS     =    TDS       (93:135,1);
85     deploy1_feet    =    dfeet     (93:135,1);
86     deploy1_temp    =    temp      (93:135,1);
87     deploy1_sal     =    sal       (93:135,1);
88
89     % TWO
90     deploy2_EC      =    EC        (609:660,1);
91     deploy2_TDS     =    TDS       (609:660,1);
92     deploy2_feet    =    dfeet     (609:660,1);
93     deploy2_temp    =    temp      (609:660,1);
94     deploy2_sal     =    sal       (609:660,1);
95
96     % THREE
97     deploy3_EC      =    EC        (774:799,1);
98     deploy3_TDS     =    TDS       (774:799,1);
99     deploy3_feet    =    dfeet     (774:799,1);
100    deploy3_temp    =    temp      (774:799,1);
101    deploy3_sal     =    sal       (774:799,1);
102
103    % FOUR
104    deploy4_EC      =    EC        (832:979,1);
105    deploy4_TDS     =    TDS       (832:979,1);
106    deploy4_feet    =    dfeet     (832:979,1);
107    deploy4_temp    =    temp      (832:979,1);
108    deploy4_sal     =    sal       (832:979,1);

```

```

109
110 %% 5. GRAPHS
111 % however many you did, make that many subplot graphs
112 % or you can put them on their own plots (not subplot them)
113 % these are the same with the numbers changed, 1-4
114     figure;
115     subplot(2,2,1); % subplot since I want four graphs on one figure
116     plot(deploy1_temp,deploy1_feet,'red');
117     title('One');
118     hold
119     plot(deploy1_sal,deploy1_feet,'blue');
120     set(gca,'Ydir','reverse'); % to make zero the top of Y axis
121     ylim([0 40]); % use the depth you deployed
122     xlim([14.5 19]) % use the range of your data
123     legend('temp','salinity')
124     ylabel('depth (ft)');
125     xlabel('°C | PSU (ppt)');
126
127     subplot(2,2,2);
128     plot(deploy2_temp,deploy2_feet,'red');
129     title('Two');
130     hold
131     plot(deploy2_sal,deploy2_feet,'blue');
132     set(gca,'Ydir','reverse');
133     ylim([0 40]); % use the depth you deployed
134     xlim([14.5 19]) % use the range of your data
135     legend('temp','salinity')
136     ylabel('depth (ft)');
137     xlabel('°C | PSU (ppt)');
138
139     subplot(2,2,3);
140     plot(deploy3_temp,deploy3_feet,'red');
141     title('Three');
142     hold
143     plot(deploy3_sal,deploy3_feet,'blue');
144     set(gca,'Ydir','reverse');
145     ylim([0 40]); % use the depth you deployed
146     xlim([14.5 19]) % use the range of your data
147     legend('temp','salinity')
148     ylabel('depth (ft)');
149     xlabel('°C | PSU (ppt)');
150
151     subplot(2,2,4);
152     plot(deploy4_temp,deploy4_feet,'red');
153     title('Four');
154     hold
155     plot(deploy4_sal,deploy4_feet,'blue');
156     set(gca,'Ydir','reverse');
157     ylim([0 40]); % use the depth you deployed
158     xlim([14.5 19]) % use the range of your data
159     legend('temp','salinity')
160     ylabel('depth (ft)');
161     xlabel('°C | PSU (ppt)');

```