EAS 199B: Checklist for calibration of the salinity sensor

Date:

Group members: ________________________________ Sub-project Leader ________________________________

<table>
<thead>
<tr>
<th>Your score</th>
<th>Max score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_____</td>
<td>5</td>
<td>Raw data is saved to a spreadsheet with clear labels, date and group name</td>
</tr>
<tr>
<td>_____</td>
<td>5</td>
<td>Histograms of readings at each salinity calibration point are created.</td>
</tr>
<tr>
<td>_____</td>
<td>5</td>
<td>Statistics for each salinity calibration point are computed and tabulated.</td>
</tr>
<tr>
<td>_____</td>
<td>5</td>
<td>Forward, $S = f(V)$, and reverse, $V = g(S)$, curve fits to the raw data are obtained. Coefficients of curve fits to at least 5 decimal places are recorded.</td>
</tr>
<tr>
<td>_____</td>
<td>5</td>
<td>Plots of raw data with superimposed curve fits (forward and reverse) with proper labels are completed.</td>
</tr>
<tr>
<td>_____</td>
<td>15</td>
<td>Running the fish tank with a calibration standard results in display of reasonably close salinity value on the LCD</td>
</tr>
</tbody>
</table>

40 Total

Sub-project Leader

<table>
<thead>
<tr>
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<th>Max score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>_____</td>
<td>5</td>
<td>Clear and responsive communication with instructor</td>
</tr>
<tr>
<td>_____</td>
<td>5</td>
<td>System is organized and ready for in-class verification</td>
</tr>
<tr>
<td>_____</td>
<td>5</td>
<td>All team members are knowledgeable about system operation</td>
</tr>
</tbody>
</table>

15