

**MosaicHydro Sidescan Training Course**  
**DRAFT Syllabus**  
**6 - 8 October 2008**

Day 1 – In Class	Day 2 – In Class
<b>Introduction</b> <ul style="list-style-type: none"> <li>• <i>Instructor Introduction</i></li> <li>• <i>Housekeeping</i></li> <li>• <i>Outline</i></li> </ul>	<b>Software III</b> <ul style="list-style-type: none"> <li>• <i>SonarWiz.MAP</i> <ul style="list-style-type: none"> <li>○ <i>Overview</i></li> <li>○ <i>Recording Configuration</i></li> </ul> </li> </ul>
<b>Sidescan I</b> <ul style="list-style-type: none"> <li>• <i>Intro to Sidescan Sonars</i></li> <li>• <i>Uses / Applications</i></li> <li>• <i>Major Manufacturers &amp; Models</i></li> </ul>	<b>Software IV</b> <ul style="list-style-type: none"> <li>• <i>SonarWiz.MAP</i> <ul style="list-style-type: none"> <li>○ <i>Postprocessing</i></li> </ul> </li> </ul>
<b>Towfish Positioning</b> <ul style="list-style-type: none"> <li>• <i>GPS</i></li> <li>• <i>Layback</i></li> <li>• <i>Acoustic Positioning</i></li> </ul>	<b>Software V</b> <ul style="list-style-type: none"> <li>• <i>SonarWiz.MAP</i> <ul style="list-style-type: none"> <li>○ <i>Exporting final products</i></li> </ul> </li> </ul>
<b>Sidescan II</b> <ul style="list-style-type: none"> <li>• <i>Practical acoustics</i> <ul style="list-style-type: none"> <li>○ <i>Pulse Length</i></li> <li>○ <i>Beam Width</i></li> <li>○ <i>Frequency</i></li> <li>○ <i>Resolution</i></li> </ul> </li> </ul>	<b>Sidescan VI</b> <ul style="list-style-type: none"> <li>• <i>Dry set-up</i></li> <li>• <i>Rub-test</i></li> <li>• <i>System test</i></li> </ul>
<b>Lunch Break</b>	
<b>Sidescan III</b> <ul style="list-style-type: none"> <li>• <i>Survey techniques</i></li> <li>• <i>Pre-planning</i></li> <li>• <i>Bathymetry</i></li> </ul>	<b>Sidescan VI</b> <ul style="list-style-type: none"> <li>• <i>Record interpretation</i> <ul style="list-style-type: none"> <li>○ <i>Artefacts</i></li> <li>○ <i>Objects</i></li> <li>○ <i>Metrics</i></li> </ul> </li> </ul>
<b>Software I</b> <ul style="list-style-type: none"> <li>• <i>General System Requirements</i></li> <li>• <i>Configuration</i></li> <li>• <i>Collection</i></li> <li>• <i>Post-processing</i></li> </ul>	
<b>Software II</b> <ul style="list-style-type: none"> <li>• <i>HYPACK SS Overview</i></li> <li>• <i>QINSy SS overview</i></li> </ul>	

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<b>Day 3 – At Sea</b>
<b>System Setup</b> <ul style="list-style-type: none"><li>• <i>Sensors</i></li><li>• <i>Sounder Hardware</i></li><li>• <i>Software Setup</i></li><li>• <i>Communications</i></li><li>• <i>Deck test</i></li><li>• <i>Sensor calibration</i></li></ul>
<b>Sidescan Survey I</b> <ul style="list-style-type: none"><li>• <i>Deployment and Recovery</i></li><li>• <i>Running lines</i></li><li>• <i>Identify</i><ul style="list-style-type: none"><li>○ <i>Objects</i></li><li>○ <i>Artefacts</i></li><li>○ <i>Sea surface</i></li><li>○ <i>Water Column</i></li></ul></li></ul>
<b>Lunch</b>
<b>Sidescan Survey II</b> <ul style="list-style-type: none"><li>• <i>Error recognition</i><ul style="list-style-type: none"><li>○ <i>Positioning Sensor</i></li><li>○ <i>Layback</i></li><li>○ <i>Refraction</i></li><li>○ <i>Time latency</i></li></ul></li><li>• <i>Complete Area Survey</i></li></ul>
<b>Wrap-up</b> <ul style="list-style-type: none"><li>• <i>Final Q&amp;A</i></li><li>• <i>Critiques</i></li></ul>