

<p>'m1, m2 and/or m3'</p> <p>Data File</p>	<p>SVP, SVPT or CTD</p>	<p>Any</p>	<p>The m1, m2 and/or m3 data files are processed data files. The files include the RAW file header, column header labels and columns of data: pressure, conductivity, temperature, depth, sound velocity, salinity and density.</p> <p>*If an AML CTD+ and/or a DTM/Mux are used, the file also includes the 0-5V sensors readings.</p> <p>Units: Pressure – dbar Depth – m, (instrument pressure is converted to depths) SV – m/s Temp – degrees Celsius Cond – mmho/cm (mS/cm) Sal – psu, Sal78 PSS-78 Density – kg/m³ LOPC – cnt/s</p> <p> *ANLG0 - V (0.0 to 5.000) *ANLG1 - mV (0.0 to 5000.0) *ANLG2 - mV (0.0 to 5000.0) *ANLG3 - mV (0.0 to 5000.0) *ANLG4 - mV (0.0 to 5000.0)</p> <p>Computation of Density - Reference: UNESCO technical paper in marine science, 44, Algorithms for computation of fundamental properties of seawater, Unesco 1983</p> <p>Computation of Salinity - References: UNESCO Report No. 37, 1981, Practical Salinity Scale 1978, E. L. Lewis, IEEE JOE Jan 1980</p> <p>Format Spec: see file <i>sample1_0001.m1</i></p>
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File Suffix/ Type	Instrument Type	Serial Data Out Cfg.	File Format
'asc' ASCII D,SV Sound Velocity File	SVP, SVPT or CTD	ASCII D,SV	<p>Two columns of data – depth in m and sound velocity in m/s. If the sensor is a CTD, sound velocities are computed using UNESCO Equations of State.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s, computed when CTD is used.</p> <p>Sound velocity values are either computed (CTD instrument) or measured directly (SV&P instrument).</p> <p>Computation of Sound Velocity – Reference: Sound speed in seawater after Millero and Chen 1977, JASA, 62, 1129-1135</p> <p>Format Spec: see file <i>sample1_0001.asc</i></p>
'asvp' ASCII D,SV Sound Velocity File	SVP, SVPT or CTD	ASCII D,SV	<p>Includes a header with time and position encoding.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s, computed when CTD is used.</p> <p>Sound velocity values are either computed (CTD instrument) or measured directly (SVP or SVPT instrument).</p> <p>Computation of Sound Velocity – Reference: Sound speed in seawater after Millero and Chen 1977, JASA, 62, 1129-1135</p> <p>Format Spec: see file <i>sample1_0001.asvp</i></p>

<p>'calc'</p> <p>AML Calc</p> <p>Sound Velocity File</p>	<p>SVP, SVPT or CTD</p>	<p>AML Calc</p>	<p>AML Calc format</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s Temp - degrees Celsius</p> <p>*If an SVP sensor is used, the default Temp value is 5 degrees Celsius.</p> <p>Sound velocity values are either computed (CTD instrument) or measured directly (SVP or SVPT instrument).</p> <p>The bottom depth, ship's speed, position and date/time is stamped on the end of the file – after the AML Calc file termination characters - position footer information.</p> <p>Format Spec: see file <i>sample1_0001.calc</i></p>
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<p>'em1'</p> <p>EM1000</p> <p>Sound Velocity File</p>	<p>SVP, SVPT or CTD</p>	<p>EM1000</p>	<p>100 point AML Calc file - decimated version of the AML Calc format.</p> <p>EM1000 can only handle 100 depth bins. A template file is used to define the depths, else 1-100 is chosen by default. File will contain 100 data points or less.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s Temp - degrees Celsius</p> <p>*If an SVP sensor is used, the default Temp value is 5 degrees Celsius.</p> <p>Template file simtable.txt must exist in the MVP program directory. If there is an error in loading or the file cannot be found, default values are used. Template file must contain a minimum of 100 points else default values are used.</p> <p>Sound velocity values are either computed (CTD instrument) or measured directly (SVP or SVPT instrument).</p> <p>A position is appended to the end of the file – after the AML Calc file termination characters – position footer information. Computer date is also appended to end of file.</p> <p>Format Spec: see file <i>sample1_0001.em1</i></p>
<p>'S00'</p> <p>EMS00 D,SV</p> <p>Sound Velocity File</p>	<p>SVP, SVPT or CTD</p>	<p>EMS00 D,SV</p>	<p>Simrad 'S00' format - Depth vs. SV profile.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s</p> <p>Sound velocity values are either computed (CTD instrument) or measured directly (SVP or SVPT instrument).</p> <p>Format Spec: see file <i>sample1_0001.s00</i></p>

<p>'S10'</p> <p>EMS10 D,SV</p> <p>Sound Velocity File</p>	<p>SVP, SVPT or CTD</p>	<p>EMS10 D,SV</p>	<p>Simrad "S10" format - depth vs. SV profile.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s</p> <p>Sound velocity values are either computed (CTD instrument) or measured directly (SVP or SVPT instrument).</p> <p>Format Spec: see file <i>sample1_0001.s10</i></p>
<p>'S12'</p> <p>EMS12 D,SV,T,S</p> <p>Sound Velocity File</p>	<p>SVPT or CTD</p>	<p>EMS12 D,SV,T,S</p>	<p>Simrad 'S12' format - Depth vs. SV profile with temperature and salinity.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) SV – m/s Temp – degrees Celsius Sal – psu, Sal78 PSS-78</p> <p>Sound velocity values are computed if CTD is used.</p> <p>Format Spec: see file <i>sample1_0001.s12</i></p>

<p>'S50/52'</p> <p>EMS50/52 P,,T,C,</p> <p>Sound Velocity File</p>	<p>CTD</p>	<p>EMS50/52 P,,T,C,</p>	<p>Simrad 'S50/52' format – Pressure with temperature and conductivity.</p> <p>Units: Press – MPa, Temp – degrees Celsius Cond – S/m</p> <p>If Simrad SIS software is being used on the vessel, when the S52 data file format is received by the SIS software, this enables the SIS software to calculate absorption coefficients automatically. When the S50 data file format is received, the SIS software cannot use this format to calculate absorption coefficients. Statement above may vary with Simrad SIS software being used. Refer to SIS documentation.</p> <p>Sound velocity values are computed by SIS.</p> <p>Format Spec: see file sample1_0001.s50 see file sample1_0002.s52</p>
<p>'S50d/52d'</p> <p>EMS50d/52d D,,T,C,</p> <p>Sound Velocity File</p>	<p>CTD</p>	<p>EMS50d/52d D,,T,C,</p>	<p>Simrad 'S50d/52d' format – Depth (dbars) with temperature and conductivity. Only available for SIS software versions prior to V3.2.</p> <p>Units: Depth – m, (instrument pressure is converted to depths) Temp – degrees Celsius Cond – mmho/cm (mS/cm)</p> <p>If simrad SIS software is being used on the vessel, when the S52d data file format is received by the SIS software, this enables the SIS software to calculate absorption coefficients automatically. When the S50d data file format is received, the SIS software cannot use this format to calculate absorption coefficients. Statement above may vary with Simrad SIS software being used. Refer to SIS documentation.</p> <p>Sound velocity values are computed by SIS.</p> <p>Format Spec: see file sample1_0003.s50d see file sample1_0004.s52d</p>