SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3073 CALIBRATION DATE: 15-Dec-10

SBE4 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Seimens/meter

GHIJ COEFFICIENTS

g = -1.04672128e+001 h = 1.25017093e+000 i = 7.49442931e-004 j = 1.06446081e-005

$$CPcor = -9.5700e-008 \text{ (nominal)}$$

 $CTcor = 3.2500e-006 \text{ (nominal)}$

ABCDM COEFFICIENTS

a = 8.59563139e-004 b = 1.24987061e+000 c = -1.04666278e+001 d = -8.42501582e-005

m = 3.0

CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREO (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.89094	0.00000	0.00000
-1.0000	34.8631	2.80799	5.54286	2.80799	-0.00001
1.0000	34.8631	2.97958	5.66467	2.97960	0.00001
15.0000	34.8640	4.27684	6.51179	4.27683	-0.00002
18.5000	34.8636	4.62397	6.72029	4.62398	0.00001
29.0000	34.8625	5.70903	7.33362	5.70904	0.00001
32.5000	34.8566	6.08222	7.53294	6.08221	-0.00001

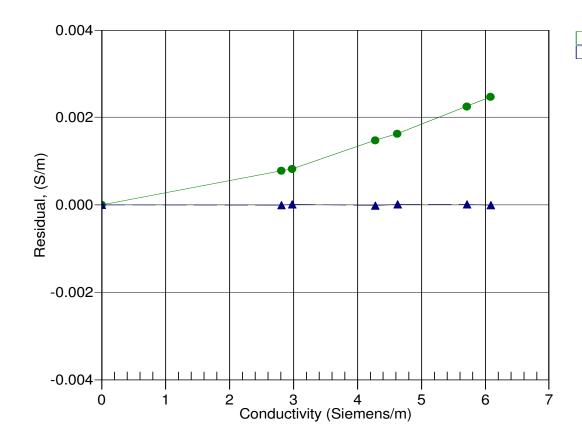
Conductivity = $(g + hf^2 + if^3 + jf^4)/10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^{m} + bf^{2} + c + dt) / [10 (1 + \varepsilon p)]$ Siemens/meter

 $t = temperature[°C)]; p = pressure[decibars]; \delta = CTcor; \epsilon = CPcor;$

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction



07-Oct-09 0.999632615-Dec-10 1.0000000