

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1070
 CALIBRATION DATE: 23-Jul-13

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

GHIJ COEFFICIENTS

g = -4.10442060e+000
 h = 5.93582995e-001
 i = -9.58774324e-005
 j = 3.89915241e-005
 CPcor = -9.5700e-008 (nominal)
 CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.53054045e-005
 b = 5.93302758e-001
 c = -4.10363920e+000
 d = -8.21003359e-005
 m = 4.1
 CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.62953	0.00000	0.00000
-1.0000	34.9131	2.81165	7.35892	2.81165	0.00001
1.0001	34.9136	2.98350	7.55204	2.98350	0.00000
15.0001	34.9145	4.28239	8.87511	4.28235	-0.00004
18.5000	34.9145	4.62999	9.19652	4.63000	0.00001
29.0001	34.9139	5.71651	10.13435	5.71657	0.00006
32.5000	34.9079	6.09015	10.43690	6.09011	-0.00004

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

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

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

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

Date, Slope Correction

