

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2459
CALIBRATION DATE: 09-Jan-09

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

GHIJ COEFFICIENTS

g = -1.02638352e+001
h = 1.51274368e+000
i = 7.31038827e-005
j = 7.50769102e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.56795192e-004
b = 1.51253777e+000
c = -1.02630489e+001
d = -8.13343508e-005
m = 3.7
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	2.60418	0.00000	0.00000
-1.0000	34.8479	2.80688	5.03009	2.80688	-0.00000
1.0634	34.8482	2.98393	5.14480	2.98394	0.00001
14.9999	34.8493	4.27522	5.91413	4.27521	-0.00001
18.4999	34.8494	4.62228	6.10429	4.62226	-0.00002
29.0000	34.8469	5.70677	6.66343	5.70683	0.00006
32.5000	34.8416	6.07990	6.84512	6.07986	-0.00004

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

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

