

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 18-Aug-11

SBE19 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -4.15237063e+000
h = 4.94741602e-001
i = 1.49070819e-003
j = -4.45133438e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.00306000e-002
b = 4.42091106e-001
c = -4.14323092e+000
d = -1.57269306e-004
m = 2.1
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)
22.0000	0.0000	0.00000	2.88563	0.00000	0.00000
1.0000	34.9808	2.98868	8.21824	2.98865	-0.00003
4.5000	34.9605	3.29698	8.58018	3.29702	0.00003
15.0000	34.9173	4.28269	9.64557	4.28272	0.00003
18.5000	34.9079	4.62921	9.99282	4.62916	-0.00004
24.0000	34.8974	5.18935	10.52992	5.18934	-0.00001
29.0000	34.8907	5.71313	11.00833	5.71316	0.00003
32.5000	34.8864	6.08683	11.33719	6.08682	-0.00001

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

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

