

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2147
CALIBRATION DATE: 08-Dec-10

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

GHIJ COEFFICIENTS

g = -1.00345209e+001
h = 1.39977308e+000
i = -1.77088109e-003
j = 1.91980251e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.61321197e-007
b = 1.39495187e+000
c = -1.00241903e+001
d = -8.39653335e-005
m = 6.3
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	2.68066	0.00000	0.00000
-1.0000	34.8505	2.80707	5.22501	2.80708	0.00001
1.0000	34.8509	2.97864	5.34129	2.97865	0.00001
15.0000	34.8520	4.27553	6.14917	4.27547	-0.00005
18.5000	34.8510	4.62247	6.34782	4.62251	0.00003
29.0000	34.8497	5.70717	6.93179	5.70722	0.00004
32.5000	34.8441	6.08029	7.12144	6.08026	-0.00003

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

