

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2973
CALIBRATION DATE: 26-Aug-10

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

GHIJ COEFFICIENTS

g = -9.95355146e+000
h = 1.34397896e+000
i = 6.15135304e-004
j = 2.95532349e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.49595720e-004
b = 1.34398932e+000
c = -9.95310953e+000
d = -8.26370225e-005
m = 3.2
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	2.71949	0.00000	0.00000
-1.0000	34.8191	2.80478	5.30934	2.80476	-0.00002
0.9999	34.8190	2.97616	5.42757	2.97619	0.00003
15.0000	34.8210	4.27213	6.24895	4.27211	-0.00002
18.4999	34.8205	4.61886	6.45092	4.61888	0.00003
28.9999	34.8198	5.70282	7.04472	5.70279	-0.00002
32.5000	34.8146	6.07573	7.23768	6.07574	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

