

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2824
CALIBRATION DATE: 20-Apr-11

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

GHIJ COEFFICIENTS

g = -1.01307019e+001
h = 1.40114405e+000
i = 9.05210622e-004
j = 1.08776415e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.00182630e-003
b = 1.40093192e+000
c = -1.01305142e+001
d = -8.58765288e-005
m = 3.0
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	2.68652	0.00000	0.00000
-1.0000	34.9416	2.81373	5.21672	2.81370	-0.00003
0.9999	34.9412	2.98561	5.33242	2.98564	0.00003
14.9999	34.9411	4.28529	6.13644	4.28531	0.00002
18.5000	34.9409	4.63311	6.33419	4.63308	-0.00003
29.0000	34.9390	5.72015	6.91575	5.72015	0.00000
32.5000	34.9313	6.09377	7.10457	6.09377	0.00000

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

