

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3338
CALIBRATION DATE: 21-Aug-09

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

GHIJ COEFFICIENTS

g = -1.02084281e+001
h = 1.58267585e+000
i = -4.31550507e-003
j = 4.34656095e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.29957523e-008
b = 1.57057952e+000
c = -1.01825189e+001
d = -7.48136023e-005
m = 7.8
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	2.54628	0.00000	0.00000
-0.9999	34.5514	2.78523	4.92060	2.78526	0.00003
1.0001	34.5518	2.95551	5.02946	2.95552	0.00001
15.0001	34.5530	4.24273	5.78606	4.24264	-0.00009
18.5001	34.5528	4.58718	5.97218	4.58717	-0.00001
29.0001	34.5527	5.66399	6.51933	5.66420	0.00020
32.5001	34.5499	6.03478	6.69702	6.03464	-0.00014

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

