

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1553
CALIBRATION DATE: 16-Jul-10

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

GHIJ COEFFICIENTS

g = -4.17928223e+000
h = 5.24952718e-001
i = 1.08303841e-004
j = 2.23551591e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.36871462e-005
b = 5.25062250e-001
c = -4.17911558e+000
d = -7.64099624e-005
m = 3.7
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	2.82027	0.00000	0.00000
-1.0000	34.6874	2.79516	7.80716	2.79522	0.00006
1.0000	34.6887	2.96610	8.01133	2.96606	-0.00004
15.0000	34.6893	4.25768	9.41086	4.25763	-0.00005
18.5000	34.6893	4.60334	9.75091	4.60331	-0.00003
29.0000	34.6869	5.68351	10.74331	5.68368	0.00018
32.5000	34.6801	6.05492	11.06327	6.05480	-0.00012

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

