

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1335
CALIBRATION DATE: 24-Aug-10

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

GHIJ COEFFICIENTS

g = -3.97226182e+000
h = 5.01984335e-001
i = -3.45327652e-005
j = 2.99682811e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.77737696e-005
b = 5.01839662e-001
c = -3.97165745e+000
d = -8.03457274e-005
m = 4.0
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	2.81263	0.00000	0.00000
-1.0000	34.8168	2.80461	7.97353	2.80462	0.00001
1.0000	34.8171	2.97603	8.18343	2.97603	0.00000
15.0000	34.8186	4.27187	9.62110	4.27182	-0.00005
18.5000	34.8181	4.61858	9.97015	4.61860	0.00002
29.0000	34.8170	5.70242	10.98833	5.70248	0.00006
32.5000	34.8107	6.07512	11.31671	6.07508	-0.00004

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

