

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0497
CALIBRATION DATE: 09-Feb-11

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

GHIJ COEFFICIENTS

g = -4.27131898e+000
h = 4.60678637e-001
i = -2.24294914e-004
j = 2.83223534e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.93831253e-006
b = 4.60015739e-001
c = -4.26949018e+000
d = -8.94984870e-005
m = 4.8
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	3.04635	0.00000	0.00000
-1.0000	34.9765	2.81627	8.38974	2.81627	-0.00000
1.0000	34.9766	2.98836	8.60892	2.98836	0.00000
15.0000	34.9755	4.28907	10.11139	4.28906	-0.00001
18.5000	34.9741	4.63704	10.47635	4.63704	0.00001
29.0001	34.9665	5.72415	11.54106	5.72415	-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

