

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1374
CALIBRATION DATE: 14-Nov-00s

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

GHIJ COEFFICIENTS

g = -4.27722027e+00
h = 5.22209586e-01
i = -1.24062898e-04
j = 3.38682574e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 1.56088619e-05
b = 5.21856646e-01
c = -4.27626012e+00
d = -8.48048779e-05
m = 4.2
CPcor = -9.57e-08 (nominal)

BATH TEMP (IPTS-68 °C)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.86214	0.00000	0.00000
-1.3469	34.8163	2.77526	7.82337	2.77523	-0.00003
1.1691	34.8167	2.99063	8.08140	2.99067	0.00004
15.2894	34.8169	4.29967	9.49772	4.29968	0.00001
18.7277	34.8161	4.64073	9.83271	4.64070	-0.00003
29.2715	34.8114	5.72963	10.83189	5.72967	0.00004
32.7091	34.8043	6.09577	11.14722	6.09575	-0.00002

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 [deg C]; p = pressure [decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

