

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1346
CALIBRATION DATE: 19-Jun-01s

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

GHIJ COEFFICIENTS

g = -4.07034695e+00
h = 5.35702670e-01
i = 1.47891074e-04
j = 2.67641211e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal)

ABCDM COEFFICIENTS

a = 7.86254648e-05
b = 5.35902745e-01
c = -4.07043382e+00
d = -7.87120808e-05
m = 3.7
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	2.75491	0.00000	0.00000
-1.4235	35.9427	2.84990	7.77716	2.84988	-0.00002
1.0383	35.9431	3.06629	8.03035	3.06630	0.00001
15.2058	35.9443	4.41539	9.45479	4.41544	0.00005
18.6866	35.9456	4.77044	9.79457	4.77040	-0.00004
29.1130	35.9453	5.87753	10.78436	5.87751	-0.00002
32.6785	35.9410	6.26833	11.11223	6.26835	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

