SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1347
CALIBRATION DATE: 14-Nov-00s

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

GHIJ COEFFICIENTS

g = -3.71068959e+00
h = 4.88160793e-01
i = -1.53920017e-04
j = 3.64058142e-05
CPcor = -9.57e-08 (nominal)
CTcor = 3.25e-06 (nominal) ~7.76e-8 ← CPcor = -9.57e-08 (nominal)

ABCDM COEFFICIENTS

a = 4.45618999e-06
b = 4.88019781e-01
c = -3.71092820e+00
d = -7.46200575e-05
m = 4.7

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	2.75748	0.00000	0.00000
-1.3469	34.8163	2.77526	8.01910	2.77523	-0.00003
1.1691	34.8167	2.99063	8.28813	2.99066	0.00003
15.2894	34.8169	4.29967	9.76222	4.29968	0.00001
18.7277	34.8161	4.64073	10.11034	4.64071	-0.00002
29.2715	34.8114	5.72963	11.14762	5.72963	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 = temperaure [deg C]; p = pressure [decibars]; δ = CTcor; ϵ = CPcor;
Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients