

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1346
CALIBRATION DATE: 06-Feb-07

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

GHIJ COEFFICIENTS

g = -4.02380355e+000
h = 5.30009247e-001
i = -5.04766083e-005
j = 3.32059039e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.01055137e-005
b = 5.29788506e-001
c = -4.02282954e+000
d = -7.75823315e-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	2.75505	0.00000	0.00000
-1.0001	34.9551	2.81470	7.77906	2.81470	-0.00000
0.9999	34.9547	2.98666	7.98357	2.98667	0.00001
14.9999	34.9548	4.28679	9.38454	4.28677	-0.00002
18.4999	34.9539	4.63464	9.72465	4.63463	-0.00001
28.9999	34.9505	5.72181	10.71684	5.72186	0.00006
32.4999	34.9421	6.09543	11.03666	6.09539	-0.00004

Conductivity = (g + hf² + if³ + jf⁴) / 10(1 + δt + εp) Siemens/meter

Conductivity = (af^m + bf² + c + dt) / [10 (1 + εp) Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ε = CPcor;

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

