

SEA-BIRD ELECTRONICS, INC.

ENTERED
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SENSOR SERIAL NUMBER: 1847
CALIBRATION DATE: 06-Jan-05

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

GHIJ COEFFICIENTS

g = -4.15848092e+000
h = 4.96001887e-001
i = -4.89934558e-004
j = 4.81626604e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.20766639e-006
b = 4.94330775e-001
c = -4.15330246e+000
d = -9.09416699e-005
m = 5.1
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	2.89848	0.00000	0.00000
-1.0005	34.9468	2.81406	8.07625	2.81406	-0.00000
0.9995	34.9467	2.98600	8.28796	2.98602	0.00002
14.9996	34.9474	4.28595	9.73839	4.28591	-0.00004
18.4995	34.9473	4.63382	10.09064	4.63381	-0.00000
28.9995	34.9455	5.72104	11.11816	5.72112	0.00008
32.4995	34.9406	6.09515	11.44969	6.09510	-0.00006

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

