

Sea-Bird GmbH

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SENSOR SERIAL NUMBER: 3598
CALIBRATION DATE: 14-Jan-14

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

GHIJ COEFFICIENTS

g = -1.00146945e+001
h = 1.54622552e+000
i = -2.73544115e-003
j = 2.99875469e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.59167532e-007
b = 1.53899058e+000
c = -1.00003965e+001
d = -8.43549173e-005
m = 6.7
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	2.54911	0.00000	0.00000
-0.9977	34.8392	2.80644	4.97253	2.80645	0.00001
1.0000	34.8394	2.97775	5.08312	2.97776	0.00001
15.0000	34.8397	4.27418	5.85214	4.27412	-0.00006
18.5000	34.8379	4.62092	6.04116	4.62093	0.00001
29.0000	34.8319	5.70459	6.59661	5.70469	0.00010
32.5000	34.8205	6.07664	6.77657	6.07657	-0.00007

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

