

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2707
CALIBRATION DATE: 23-Jul-10

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

GHIJ COEFFICIENTS

g = -1.07247019e+001
h = 1.55888254e+000
i = -1.17083362e-003
j = 1.74580119e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.83771106e-006
b = 1.55621555e+000
c = -1.07202015e+001
d = -8.69090479e-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	2.62450	0.00000	0.00000
-1.0001	34.8387	2.80620	4.99048	2.80619	-0.00001
1.0000	34.8395	2.97776	5.09956	2.97776	0.00000
14.9999	34.8407	4.27428	5.85826	4.27430	0.00002
18.4999	34.8408	4.62126	6.04505	4.62126	0.00000
29.0000	34.8403	5.70581	6.59457	5.70575	-0.00006
32.4999	34.8342	6.07875	6.77319	6.07878	0.00004

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

