

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 02-Mar-01

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

GHIJ COEFFICIENTS

g = -3.84252244e+000
h = 4.14999533e-001
i = 9.96154972e-005
j = 1.64292249e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.69476774e-005
b = 4.15316667e-001
c = -3.84403654e+000
d = -9.20421962e-005
m = 3.8
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	3.04121	0.00000	0.00000
-1.4396	35.0010	2.78073	8.71080	2.78074	0.00001
1.0209	35.0010	2.99206	8.99574	2.99206	0.00000
15.1759	35.0016	4.30924	10.59788	4.30918	-0.00006
18.6521	35.0008	4.65551	10.97975	4.65555	0.00004
29.0606	34.9992	5.73534	12.09147	5.73538	0.00004
32.6182	34.9925	6.11599	12.45911	6.11597	-0.00003

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

