

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0722
CALIBRATION DATE: 03-Jun-97

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

GHIJ COEFFICIENTS

g = -3.84291934e+000
h = 4.14925252e-001
i = 9.93346454e-005
j = 1.59005256e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.84146885e-005
b = 4.15079543e-001
c = -3.84303987e+000
d = -7.86793359e-005
m = 3.7
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	3.04166	0.00000	0.00000
-1.4320	35.0093	2.78197	8.71374	2.78196	-0.00002
1.1065	35.0110	3.00029	9.00802	3.00032	0.00003
15.2251	35.0114	4.31517	10.60632	4.31513	-0.00004
18.6622	35.0083	4.65742	10.98369	4.65745	0.00003
29.2052	35.0000	5.75086	12.10892	5.75087	0.00001
32.6450	34.9959	6.11942	12.46478	6.11941	-0.00001

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

