

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2206
CALIBRATION DATE: 11-Mar-03

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

GHIJ COEFFICIENTS

g = -1.05345338e+001
h = 1.67218672e+000
i = -3.69922368e-003
j = 3.68455732e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.65095679e-009
b = 1.66181221e+000
c = -1.05125058e+001
d = -7.61933591e-005
m = 8.7
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	2.51520	0.00000	0.00000
-0.5002	32.7160	2.69078	4.74507	2.69075	-0.00002
0.9998	32.7161	2.81287	4.82187	2.81288	0.00001
14.9998	32.7174	4.04031	5.53455	4.04032	0.00001
18.4998	32.7172	4.36878	5.71011	4.36880	0.00002
28.9998	32.7158	5.39550	6.22667	5.39543	-0.00007
32.4998	32.7102	5.74864	6.39466	5.74868	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

