

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0497
CALIBRATION DATE: 17-Nov-06

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

GHIJ COEFFICIENTS

g = -4.26735378e+000
h = 4.60610176e-001
i = -3.31506146e-004
j = 3.43125293e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.52108265e-006
b = 4.59480512e-001
c = -4.26373074e+000
d = -1.17626339e-004
m = 4.9
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	3.04606	0.00000	0.00000
-0.9971	34.9671	2.81583	8.39363	2.81584	0.00001
14.9999	34.9675	4.28818	10.11586	4.28812	-0.00006
18.4999	34.9652	4.63597	10.48094	4.63604	0.00006
28.9999	34.9619	5.72346	11.54635	5.72345	-0.00001
32.4999	34.9577	6.09784	11.89056	6.09784	0.00000

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

