

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0521

CALIBRATION DATE: 01-Apr-11

SBE16 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## GHIJ COEFFICIENTS

g = -4.07691584e+000

h = 4.86842085e-001

i = 9.89586364e-004

j = -1.47015903e-005

CPcor = -9.5700e-008 (nominal)

CTcor = 3.2500e-006 (nominal)

## ABCDM COEFFICIENTS

a = 4.45970982e-003

b = 4.81054294e-001

c = -4.06705635e+000

d = -9.05293683e-005

m = 2.5

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)
22.0000	0.0000	0.00000	2.88574	0.00000	0.00000
0.9999	34.6373	2.96211	8.25906	2.96206	-0.00005
4.5000	34.6170	3.26777	8.62329	3.26780	0.00003
15.0000	34.5737	4.24499	9.69478	4.24505	0.00006
18.4999	34.5643	4.58852	10.04382	4.58852	-0.00000
24.0000	34.5534	5.14382	10.58335	5.14376	-0.00006
29.0000	34.5456	5.66295	11.06366	5.66293	-0.00002
32.5000	34.5387	6.03303	11.39352	6.03307	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];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

