

SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 2356
CALIBRATION DATE: 16-Jul-10

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

GHIJ COEFFICIENTS

g = -1.00900583e+001
h = 1.47071829e+000
i = 6.96721107e-004
j = 2.75846363e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.54883872e-004
b = 1.47042221e+000
c = -1.00890961e+001
d = -8.14612411e-005
m = 3.1
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	2.61749	0.00000	0.00000
-1.0000	34.6874	2.79516	5.07854	2.79517	0.00002
1.0000	34.6887	2.96610	5.19118	2.96608	-0.00001
15.0000	34.6893	4.25768	5.97384	4.25768	-0.00000
18.5000	34.6893	4.60334	6.16637	4.60332	-0.00002
29.0000	34.6869	5.68351	6.73245	5.68355	0.00004
32.5000	34.6801	6.05492	6.91628	6.05489	-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

