

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

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

SENSOR SERIAL NUMBER: 1030
CALIBRATION DATE: 30-Oct-08

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

GHIJ COEFFICIENTS

g = -4.06730215e+000
h = 5.72864682e-001
i = 4.63836310e-005
j = 2.99526802e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.18941928e-005
b = 5.72971895e-001
c = -4.06750246e+000
d = -8.31970947e-005
m = 3.9
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	2.66379	0.00000	0.00000
-1.0001	34.9596	2.81503	7.48607	2.81503	0.00000
0.9999	34.9600	2.98706	7.68270	2.98706	-0.00000
14.9999	34.9612	4.28749	9.02991	4.28749	-0.00000
28.9999	34.9545	5.72239	10.31117	5.72239	0.00000
32.4999	34.9429	6.09555	10.61858	6.09555	-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

