

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: 2980
CALIBRATION DATE: 21-May-09

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

GHIJ COEFFICIENTS

g = -1.00412055e+001
h = 1.37227144e+000
i = -2.32983595e-004
j = 8.69388932e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.22102368e-005
b = 1.37170898e+000
c = -1.00401202e+001
d = -8.32914484e-005
m = 4.1
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	2.70503	0.00000	0.00000
-1.0000	34.7432	2.79924	5.26231	2.79924	0.00001
1.0000	34.7437	2.97035	5.37923	2.97035	-0.00000
15.0000	34.7452	4.26381	6.19167	4.26377	-0.00004
18.4999	34.7448	4.60990	6.39151	4.60994	0.00005
29.0000	34.7444	5.69187	6.97898	5.69186	-0.00001
32.5000	34.7387	6.06399	7.16983	6.06399	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

