

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: 0357
CALIBRATION DATE: 23-May-02

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

GHIJ COEFFICIENTS

g = -4.06476204e+000
h = 4.75655382e-001
i = -2.24729719e-004
j = 3.68997229e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.42819270e-006
b = 4.74948455e-001
c = -4.06253156e+000
d = -8.37938785e-005
m = 4.4
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	2.92433	0.00000	0.00000
-1.2764	35.2395	2.81183	8.22000	2.81183	-0.00000
1.0322	35.2397	3.01150	8.47034	3.01152	0.00003
14.9990	35.2409	4.31804	9.95161	4.31799	-0.00005
18.4990	35.2408	4.66845	10.31213	4.66845	-0.00001
28.9990	35.2390	5.76359	11.36357	5.76370	0.00011
32.4990	35.2361	6.14074	11.70300	6.14066	-0.00008

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

