

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: 03-Nov-09

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

GHIJ COEFFICIENTS

g = -4.07003846e+000
h = 5.73409568e-001
i = -3.76459166e-005
j = 3.39035432e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.12866274e-005
b = 5.73266304e-001
c = -4.06953581e+000
d = -8.15590740e-005
m = 4.0
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	2.66387	0.00000	0.00000
-0.9999	34.8501	2.80705	7.47623	2.80704	-0.00001
1.0001	34.8501	2.97859	7.67258	2.97861	0.00002
15.0001	34.8516	4.27549	9.01781	4.27547	-0.00003
18.5002	34.8514	4.62254	9.34455	4.62255	0.00001
29.0002	34.8502	5.70727	10.29790	5.70730	0.00003
32.5001	34.8448	6.08041	10.60559	6.08038	-0.00002

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

