

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2583
CALIBRATION DATE: 19-Nov-09

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

GHIJ COEFFICIENTS

g = -1.04409198e+001
h = 1.52763178e+000
i = 2.88830134e-004
j = 6.29800467e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.12172368e-004
b = 1.52788210e+000
c = -1.04413072e+001
d = -8.47004705e-005
m = 3.6
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	2.61331	0.00000	0.00000
-0.9998	34.7911	2.80275	5.01317	2.80276	0.00001
1.0001	34.7919	2.97409	5.12343	2.97408	-0.00001
15.0002	34.7930	4.26908	5.89011	4.26906	-0.00002
18.5002	34.7930	4.61563	6.07882	4.61564	0.00001
29.0002	34.7921	5.69882	6.63387	5.69884	0.00002
32.5002	34.7883	6.07168	6.81438	6.07167	-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

