

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0830
CALIBRATION DATE: 19-Sep-07

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

GHIJ COEFFICIENTS

g = -4.10955841e+000
h = 5.28843117e-001
i = -4.45922563e-004
j = 5.29599045e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 3.45423396e-006
b = 5.27441681e-001
c = -4.10563684e+000
d = -8.90547418e-005
m = 4.8
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	2.78982	0.00000	0.00000
-1.0002	34.9324	2.81304	7.80975	2.81305	0.00001
0.9998	34.9324	2.98492	8.01464	2.98493	0.00000
14.9998	34.9342	4.28452	9.41845	4.28447	-0.00005
18.4998	34.9339	4.63226	9.75932	4.63228	0.00002
28.9998	34.9321	5.71912	10.75340	5.71918	0.00006
32.4998	34.9261	6.09294	11.07402	6.09290	-0.00004

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

