

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357
CALIBRATION DATE: 16-Sep-92

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

GHIJ COEFFICIENTS

g = -4.32907968e+000
h = 5.06685958e-001
i = -2.61073164e-004
j = 4.21909990e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.36947152e-008
b = 5.07129841e-001
c = -4.33631249e+000
d = 1.80815318e-003
m = 6.8
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	2.92415	0.00000	0.00000
-1.0012	34.8891	2.80979	7.99516	2.80987	0.00007
7.0462	34.8897	3.52271	8.82705	3.52261	-0.00010
15.0590	34.8903	4.28552	9.63687	4.28546	-0.00006
22.9240	34.8907	5.07728	10.40976	5.07741	0.00014
31.0572	34.8895	5.93233	11.18276	5.93228	-0.00005

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

