

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0357
CALIBRATION DATE: 28-Aug-92

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

GHIJ COEFFICIENTS

g = -4.32333028e+000
h = 5.05189708e-001
i = -1.30964704e-004
j = 3.37149757e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.14053533e-005
b = 5.04936081e-001
c = -4.32311611e+000
d = 5.52596318e-005
m = 4.3
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	2.92565	0.00000	0.00000
-0.8539	35.1856	2.84404	8.04426	2.84406	0.00003
7.2610	35.1871	3.56964	8.88724	3.56956	-0.00007
14.9766	35.1879	4.31003	9.67104	4.31009	0.00007
22.6517	35.1850	5.08712	10.42912	5.08710	-0.00002
32.5792	35.1838	6.14137	11.37543	6.14137	0.00000

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

