

SEA-BIRD ELECTRONICS, INC.

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ENTERED
FEB 04 2005

SENSOR SERIAL NUMBER: 2855
CALIBRATION DATE: 18-Dec-04

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

GHIJ COEFFICIENTS

g = -9.77934716e+000
h = 1.35642378e+000
i = 1.05808713e-003
j = 9.27339922e-006
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.13691356e-003
b = 1.35626756e+000
c = -9.77931302e+000
d = -8.62898991e-005
m = 3.0
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	2.68221	0.00000	0.00000
-1.0005	34.9184	2.81199	5.27452	2.81196	-0.00003
0.9995	34.9181	2.98379	5.39253	2.98382	0.00003
14.9995	34.9195	4.28288	6.21198	4.28287	-0.00001
18.4995	34.9193	4.63050	6.41343	4.63052	0.00001
28.9995	34.9163	5.71680	7.00535	5.71678	-0.00001
32.4995	34.9102	6.09045	7.19764	6.09046	0.00001

$$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p) \text{ Siemens/meter}$$

$$\text{Conductivity} = (af^m + bf^2 + c + dt) / [10(1 + \epsilon p)] \text{ Siemens/meter}$$

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

