

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2448
CALIBRATION DATE: 14-Jun-08

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.029205e+000
h = 1.463596e-001
i = -7.121146e-005
j = 2.931353e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 7.2604e-006

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2651.43	0.00000	0.00000
1.0000	34.8548	2.97894	5225.47	2.97894	-0.00000
4.5000	34.8354	3.28635	5421.24	3.28635	0.00000
15.0000	34.7935	4.26911	6003.61	4.26912	0.00001
18.5000	34.7848	4.61464	6195.07	4.61464	-0.00000
23.9999	34.7751	5.17316	6492.32	5.17316	-0.00000
29.0000	34.7694	5.69550	6758.16	5.69549	-0.00001
32.5000	34.7657	6.06816	6941.42	6.06817	0.00001

$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

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

$$t = \text{temperature}[^{\circ}\text{C}]; p = \text{pressure}[\text{decibars}]; \delta = \text{CTcor}; \epsilon = \text{CPcor};$$

$$\text{Residual} = \text{instrument conductivity} - \text{bath conductivity}$$

