

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0811
CALIBRATION DATE: 03-Jun-08

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

COEFFICIENTS:

g = -1.081224e+000
h = 1.502620e-001
i = -2.769782e-004
j = 4.312104e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.3368e-005

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	2688.50	0.00000	0.00000
1.0000	35.2704	3.01105	5223.53	3.01103	-0.00002
4.5000	35.2504	3.32161	5418.22	3.32163	0.00002
15.0002	35.2070	4.31445	5997.99	4.31444	-0.00001
18.5000	35.1979	4.66349	6188.81	4.66349	0.00000
24.0000	35.1874	5.22768	6485.24	5.22767	-0.00001
29.0001	35.1809	5.75528	6750.53	5.75528	0.00001
32.5000	35.1762	6.13160	6933.45	6.13160	-0.00000

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

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

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

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

