

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 17-Jun-08

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

COEFFICIENTS:

g = -9.646477e-001
h = 1.378111e-001
i = -2.506138e-004
j = 3.985090e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.4403e-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	2651.87	0.00000	0.00000
1.0000	34.9782	2.98848	5359.95	2.98849	0.00001
4.4999	34.9586	3.29681	5565.12	3.29679	-0.00002
15.0000	34.9161	4.28256	6175.21	4.28257	0.00001
18.5000	34.9069	4.62909	6375.68	4.62909	0.00001
24.0000	34.8955	5.18910	6686.80	5.18910	-0.00000
29.0000	34.8881	5.71275	6964.97	5.71273	-0.00002
32.5001	34.8821	6.08617	7156.65	6.08619	0.00001

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

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

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

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

Date, Slope Correction

