

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2002
CALIBRATION DATE: 30-May-07

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

COEFFICIENTS:

g = -1.033911e+000
h = 1.459271e-001
i = -1.707820e-004
j = 3.843848e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.7929e-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	2663.19	0.00000	0.00000
1.0000	34.8962	2.98214	5243.14	2.98216	0.00002
4.5000	34.8755	3.28976	5439.28	3.28975	-0.00001
15.0000	34.8316	4.27329	6022.82	4.27326	-0.00003
18.4999	34.8223	4.61907	6214.66	4.61908	0.00001
24.0000	34.8124	5.17811	6512.49	5.17812	0.00001
29.0000	34.8073	5.70101	6778.86	5.70102	0.00001
32.5000	34.8048	6.07421	6962.50	6.07420	-0.00002

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

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

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

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

