

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3318
CALIBRATION DATE: 31-Dec-08

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

COEFFICIENTS:

g = -1.018207e+000
h = 1.391997e-001
i = -1.957500e-004
j = 3.725012e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -5.6324e-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	2707.24	0.00000	0.00000
1.0000	34.8102	2.97549	5355.98	2.97549	-0.00001
4.5000	34.7900	3.28249	5557.26	3.28249	0.00000
15.0000	34.7467	4.26398	6155.92	4.26399	0.00001
18.5000	34.7376	4.60905	6352.70	4.60906	0.00001
23.9999	34.7273	5.16684	6658.15	5.16682	-0.00002
29.0000	34.7206	5.68841	6931.25	5.68840	-0.00001
32.5000	34.7171	6.06065	7119.55	6.06065	0.00001

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

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

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

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

