

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0470
CALIBRATION DATE: 10-Dec-13

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

COEFFICIENTS:

g = -1.046157e+000
h = 1.453260e-001
i = -3.523464e-004
j = 4.704685e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -7.6926e-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	2690.94	0.00000	0.00000
1.0000	34.7010	2.96705	5265.21	2.96704	-0.00000
4.5000	34.6812	3.27323	5462.57	3.27323	0.00000
15.0000	34.6388	4.25214	6050.20	4.25214	0.00000
18.5000	34.6296	4.59627	6243.53	4.59627	0.00000
24.0000	34.6192	5.15254	6543.82	5.15253	-0.00000
29.0000	34.6131	5.67277	6812.52	5.67276	-0.00001
32.5000	34.6091	6.04393	6997.83	6.04394	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

