

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4303
CALIBRATION DATE: 08-Dec-12

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

COEFFICIENTS:

g = -1.017774e+000
h = 1.380223e-001
i = -1.388217e-004
j = 3.242261e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -6.0412e-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	2717.05	0.00000	0.00000
1.0000	34.8525	2.97876	5377.36	2.97877	0.00001
4.5000	34.8323	3.28608	5579.47	3.28608	-0.00001
14.9999	34.7891	4.26862	6180.67	4.26862	-0.00000
18.5001	34.7798	4.61406	6378.29	4.61406	-0.00000
24.0000	34.7694	5.17242	6685.07	5.17243	0.00001
29.0000	34.7634	5.69463	6959.39	5.69462	-0.00001
32.5000	34.7600	6.06728	7148.53	6.06729	0.00000

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

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

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

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

Date, Slope Correction

