

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1853
CALIBRATION DATE: 28-Jan-11

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

COEFFICIENTS:

g = -9.854083e-001
h = 1.355053e-001
i = -9.056255e-005
j = 2.828345e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.6066e-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	2697.02	0.00000	0.00000
1.0001	34.7050	2.96737	5394.34	2.96737	0.00001
4.5002	34.6851	3.27358	5598.45	3.27356	-0.00002
15.0000	34.6415	4.25243	6205.24	4.25245	0.00001
18.4999	34.6319	4.59653	6404.60	4.59656	0.00003
24.0000	34.6217	5.15287	6714.04	5.15285	-0.00002
29.0000	34.6153	5.67309	6990.68	5.67306	-0.00003
32.5000	34.6104	6.04413	7181.30	6.04416	0.00002

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

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

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

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

Date, Slope Correction

