

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9309
CALIBRATION DATE: 09-Nov-13

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

COEFFICIENTS:

g = -9.812298e-001
h = 1.346698e-001
i = -6.614881e-005
j = 2.249466e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 9.2605e-008

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	2699.44	0.00000	0.00000
1.0000	34.7078	2.96757	5408.97	2.96758	0.00000
4.5000	34.6875	3.27377	5614.01	3.27377	0.00000
15.0000	34.6438	4.25269	6223.66	4.25267	-0.00002
18.5000	34.6346	4.59686	6424.04	4.59687	0.00001
24.0000	34.6246	5.15325	6735.08	5.15326	0.00000
29.0000	34.6192	5.67366	7013.24	5.67366	0.00000
32.5002	34.6165	6.04510	7205.04	6.04509	-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

