

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3762
CALIBRATION DATE: 05-Feb-14

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

COEFFICIENTS:

g = -1.044008e+000
h = 1.314036e-001
i = -9.447639e-005
j = 2.665680e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = -8.1560e-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	2819.53	0.00000	0.00000
1.0000	34.7364	2.96979	5520.72	2.96978	-0.00000
4.5000	34.7166	3.27624	5726.80	3.27625	0.00001
15.0000	34.6741	4.25601	6340.02	4.25601	-0.00000
18.5000	34.6649	4.60045	6541.67	4.60044	-0.00001
24.0000	34.6546	5.15723	6854.80	5.15723	0.00000
29.0000	34.6484	5.67791	7134.88	5.67792	0.00001
32.4999	34.6446	6.04942	7327.97	6.04941	-0.00001

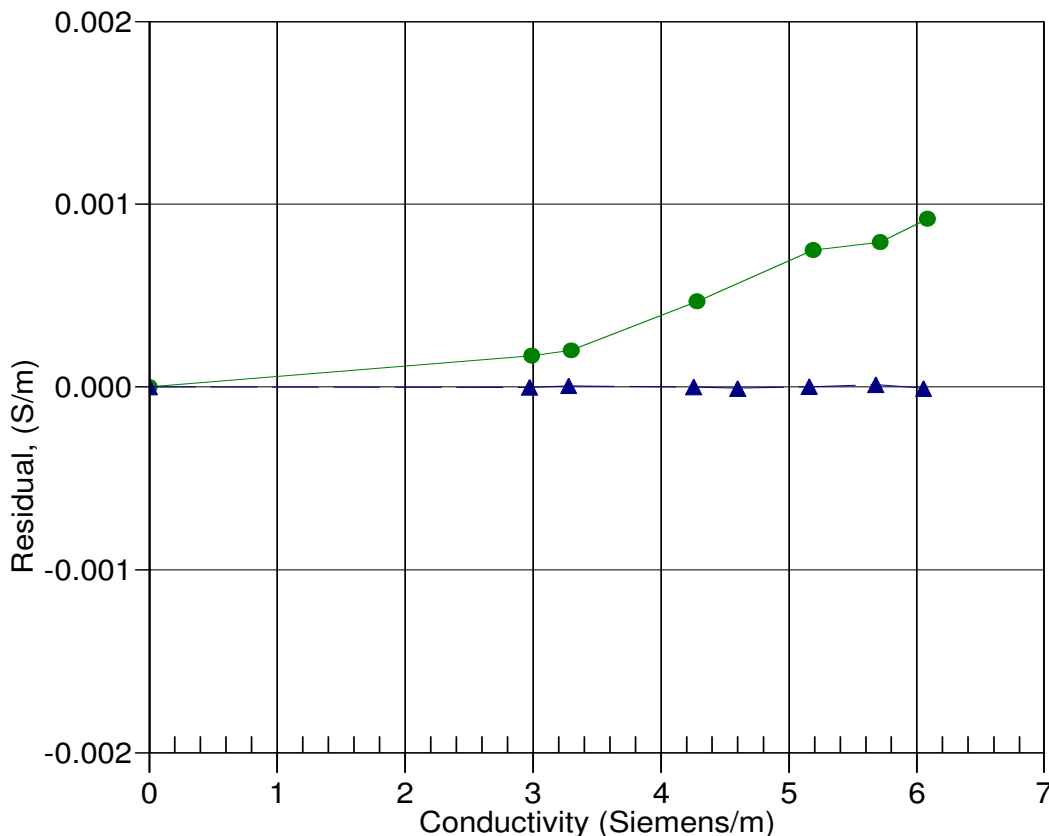
$$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$$

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

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

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

Date, Slope Correction



17-Dec-11 0.9998727
05-Feb-14 1.0000000