

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0361
CALIBRATION DATE: 13-Feb-14

SBE 45 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.835928e-001	CPcor = -9.5700e-008
h = 1.380558e-001	CTcor = 3.2500e-006
i = -1.284732e-004	WBOTC = 1.5603e-007
j = 2.841119e-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	2670.55	0.00000	0.00000
1.0000	34.6555	2.96353	5344.63	2.96354	0.00001
4.5000	34.6358	3.26937	5547.10	3.26935	-0.00002
15.0000	34.5936	4.24717	6149.18	4.24718	0.00001
18.5000	34.5848	4.59096	6347.04	4.59097	0.00000
24.0000	34.5753	5.14672	6654.17	5.14671	-0.00001
28.9999	34.5703	5.66653	6928.83	5.66653	0.00000
32.4999	34.5678	6.03753	7118.20	6.03753	0.00000

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

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

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

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

Date, Slope Correction

