

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0361
CALIBRATION DATE: 20-Nov-12

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

COEFFICIENTS:

g = -9.835201e-001	CPcor = -9.5700e-008
h = 1.382265e-001	CTcor = 3.2500e-006
i = -2.077265e-004	WBOTC = 1.5603e-007
j = 3.432985e-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	2670.44	0.00000	0.00000
1.0000	34.9243	2.98431	5360.20	2.98431	-0.00000
4.5000	34.9037	3.29216	5563.59	3.29215	-0.00000
15.0000	34.8590	4.27630	6168.20	4.27630	0.00000
18.5000	34.8492	4.62226	6366.85	4.62227	0.00001
24.0000	34.8382	5.18152	6675.15	5.18152	0.00000
29.0000	34.8316	5.70454	6950.77	5.70452	-0.00002
32.5000	34.8269	6.07763	7140.72	6.07764	0.00001

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

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

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

Date, Slope Correction

