

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0817
 CALIBRATION DATE: 10-Dec-09

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

COEFFICIENTS:

g = -1.091940e+000	CPcor = -9.5700e-008
h = 1.390460e-001	CTcor = 3.2500e-006
i = -3.398228e-005	WBOTC = -1.3113e-005
j = 2.251741e-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	2801.92	0.00000	0.00000
1.0000	34.8076	2.97529	5399.29	2.97530	0.00001
4.5000	34.7880	3.28232	5598.66	3.28231	-0.00001
15.0000	34.7451	4.26380	6192.48	4.26380	0.00000
18.4999	34.7356	4.60881	6387.88	4.60880	-0.00001
24.0000	34.7245	5.16648	6691.45	5.16649	0.00001
29.0000	34.7173	5.68793	6963.06	5.68792	-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 = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

