

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 10-Dec-09

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

COEFFICIENTS:

g = -1.041594e+000
h = 1.258040e-001
i = -1.319074e-004
j = 2.555715e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.4820e-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	2879.06	0.00000	0.00000
1.0000	34.8076	2.97529	5649.05	2.97530	0.00001
4.5000	34.7880	3.28232	5860.09	3.28231	-0.00001
15.0000	34.7451	4.26380	6488.03	4.26380	0.00000
18.4999	34.7356	4.60881	6694.47	4.60880	-0.00001
24.0000	34.7245	5.16648	7015.01	5.16650	0.00002
29.0000	34.7173	5.68793	7301.63	5.68792	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity

