

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2448
CALIBRATION DATE: 03-Jun-08

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

COEFFICIENTS:

g = -1.036511e+000
h = 1.473851e-001
i = -6.626502e-005
j = 2.943215e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 7.2604e-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	2651.43	0.00000	0.00000
1.0000	35.2704	3.01105	5232.35	3.01110	0.00005
4.5000	35.2504	3.32161	5428.36	3.32156	-0.00005
15.0002	35.2070	4.31445	6011.68	4.31446	0.00001
18.5000	35.1979	4.66349	6203.39	4.66343	-0.00006
24.0000	35.1874	5.22768	6501.13	5.22774	0.00006
29.0001	35.1809	5.75528	6767.32	5.75531	0.00004
32.5000	35.1762	6.13160	6950.73	6.13156	-0.00004

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

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

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

Residual = instrument conductivity - bath conductivity

